VAA11801-R.3578.A

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Nikon
COOLPIX5700

VAA11801 (J)
VAA11802 (U)
VAA11803 (EP)
VAA11804 (EN)

REPAIR MANUAL

Nikon | NIKON CORPORATION
Tokyo, Japan

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Specifications

Type	E5700 digital camera
Effective pixels	5.0 million
CCD	$^{2}/_{3}$" high-density CCD; total pixels: 5.24 million
Image size (pixels)	• 2560 x 1920 (Full) • 1280 x 960 (SXGA) • 2560 x 1704 (3:2) • 1024 x 768 (XGA) • 1600 x 1200 (UXGA) • 640 x 480 (VGA)
Lens	8 x Zoom Nikkor
Focal length	F = 8.9 – 71.2 mm (35-mm [135] camera format equivalent: 35 – 280 mm)
f/-number	f2.8 – f4.2
Construction	Fourteen elements in ten groups
Digital zoom	4 x
Autofocus (AF)	Contrast-detect through-the-lens (TTL) AF
Focus range	50 cm (1'8") – ∞ ; 3 cm (0'8") – ∞ in macro mode
Focus-area selection	Five-area multi AF and spot AF available
Viewfinder	Color LCD viewfinder, 0.44 , 180,000-dot, high temperature polysilicon TFT LCD with brightness adjustment
Magnification	0.30 – 0.84 x (Needs confirmation)
Frame coverage	Approximately 97% (through/freeze image)
Diopter adjustment	–4 – +1m^{-1}
Monitor	1.5", 110,000-dot, low temperature polysilicon TFT LCD with brightness and hue adjustment
Frame coverage	Approximately 97% (through/freeze image)
Storage	
Media	Type I and II CompactFlash™ (CF) cards and Microdrive® cards
File system	Compliant with Design rule for Camera File systems (DCF) and Digital Print Order Format (DPOF)
Compression	JPEG-baseline-compliant
Exposure	
Metering	Four mode through-the-lens (TTL) metering: • 256-segment matrix • Spot • Center-weighted • AF spot
Exposure control	Programmed auto with flexible program, shutter-priority auto, aperture-priority auto, manual, exposure compensation (–2.0 – +2.0 EV in steps of $^{1}/_{3}$ EV), autoexposure bracketing
Range	W: – 2.0 – +18.0 EV
(ISO 100 equivalent)	T: – 0.5 – +17.0 EV
Shutter	Mechanical and charge-coupled electronic shutter
Speed	8 sec – $^{1}/_{4000}$ sec bulb setting available

Aperture Range	Seven-blade iris diaphragm Ten settings in steps of $^{1}/_{3}$ EV
Sensitivity	ISO equivalent approximately 100, 200, 400, 800, or Auto (auto gain to ISO 800)
Self-timer	Three- or ten-second duration
Built-in Speedlight Sync method	Guide number 12/38.4 (ISO 100, m/ft) Automatic sync control
Accessory shoe Sync contact	Standard ISO hot-shoe contact with safety lock X-contact only
Interface	USB
Video output	User can choose from NTSC and PAL
I/O terminals	• DC input • Audio/video (A/V) output • Data output (USB)
Power sources	• One rechargeable Nikon EN-EL1 lithium-ion battery (supplied) or six-volt 2CR5 (DL245) lithium battery (available separately) • MB-E5700 battery pack (available separately) with six LR6 (AA) alkaline, lithium, NiCad, or NiMH batteries • EH-21 AC adapter/battery charger (available separately)
Battery life (EN-EL1)	Approximately 90 minutes (as measured at room temperature [20°C/68 °F] under standard Nikon test conditions: monitor on, zoom adjusted with each shot, flash used in approximately one third of photographs, image quality set to NORMAL
Dimensions (W x H x D)	108 x 76 x 102 mm (4.3" x 3.0" x 4.0")
Weight	Approximately 480 g without battery and memory card

DISASSEMBLING

⚠ WARNING	
	● There are high voltege parts inside. Be careful of this electric shock, when you remove the cover. ● You must discharge the main condenser according to the instruction of this repair manual before you remove the cover.

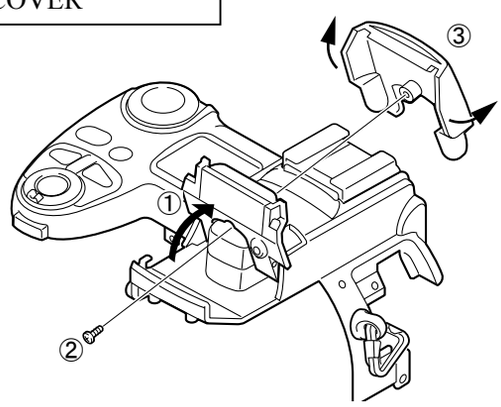
Notes:

① Remove the battery prior to dissassmbly.

② At disassembling, be sure to memorize how the lead wires were arranged, how the screws were fixed and the type of the used screws.

③ Electrical parts must be grounded since they are easily damaged by static.

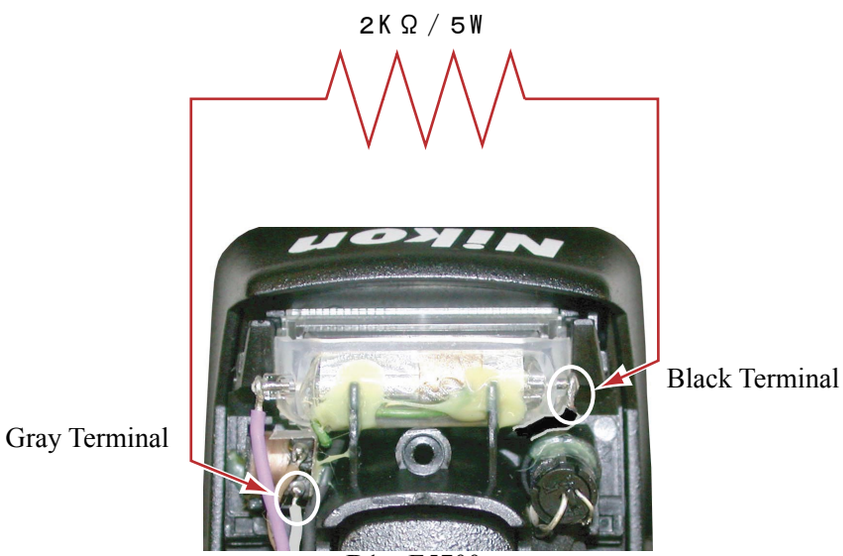
1. SB TOP COVER



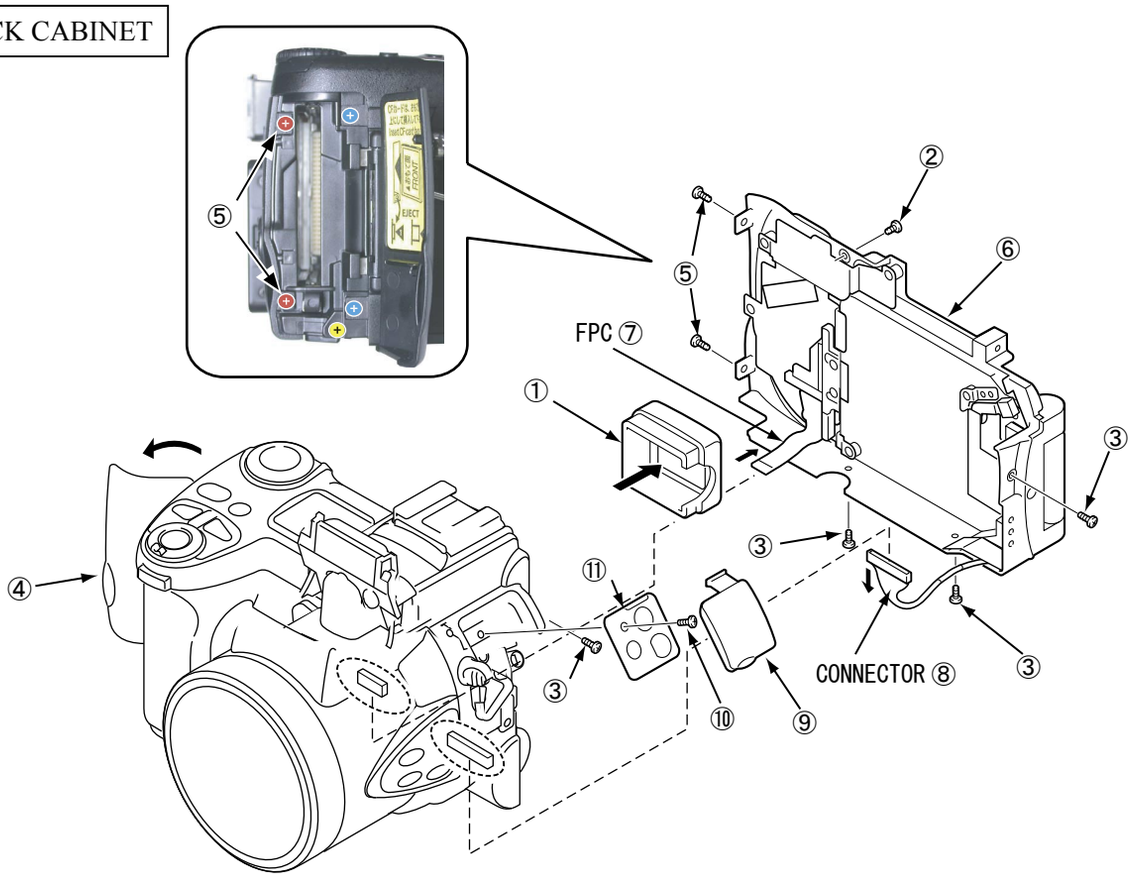
- Open the SB unit ① .
- Remove the screw ② (M1.7 x 4.5) .
- Remove the SB Top cover ③ .

Discharging electricity from the main condenser

⚠ WARNING	
	● There are high voltege parts inside. Be careful of this electric shock, when you remove the cover. ● You must discharge the main condenser according to the instruction of this repair manual before you remove the cover.

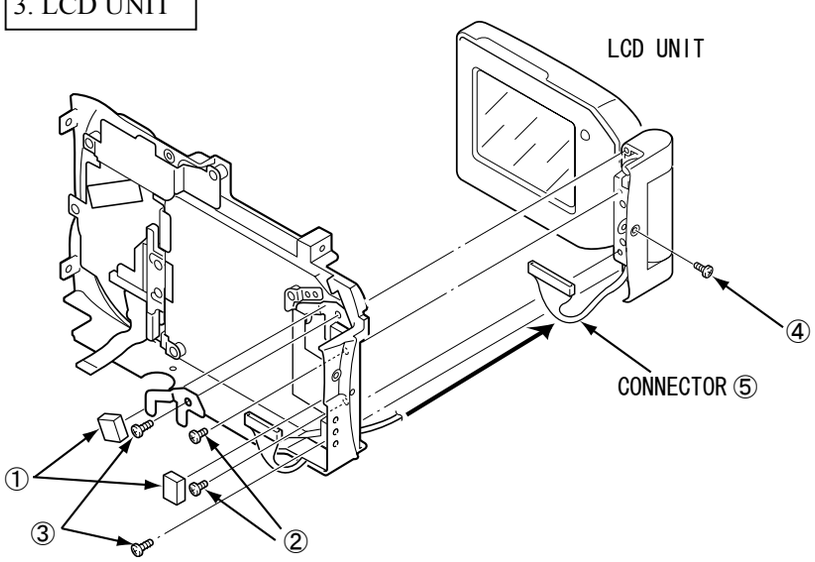


2. BACK CABINET

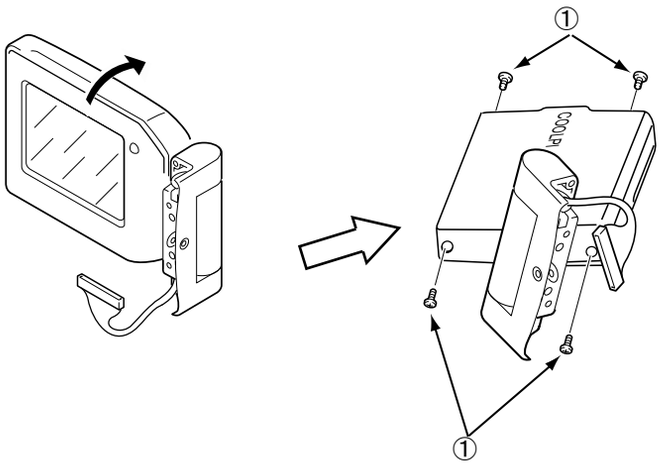


- Remove the Hood VF ① .
- Remove the screw ② (M1.7 x 2.5) .
- Remove the 4 Pieces of screws ③ (M1.7 x 3.5) .
- Open the CF card cover ④ .
- Remove the 2 Pieces of screws ⑤ (M1.7 x 4) .
- Carefully remove the Back Cabinet ⑥ from the camera body .
- Remove the FPC ⑦ and the connector ⑧ .
- Remove the Back Cabinet ⑥ .
- Open the Jack cover ⑨ .
- Remove the screw ⑩ (M1.7 x 3), and then remove the Jack Holder ⑪ .
- Remove the Jack cover ⑨ .

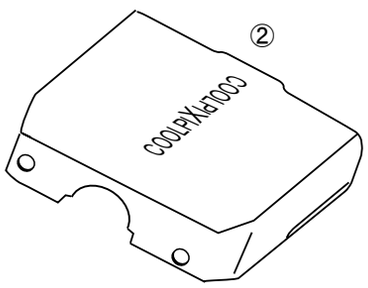
3. LCD UNIT



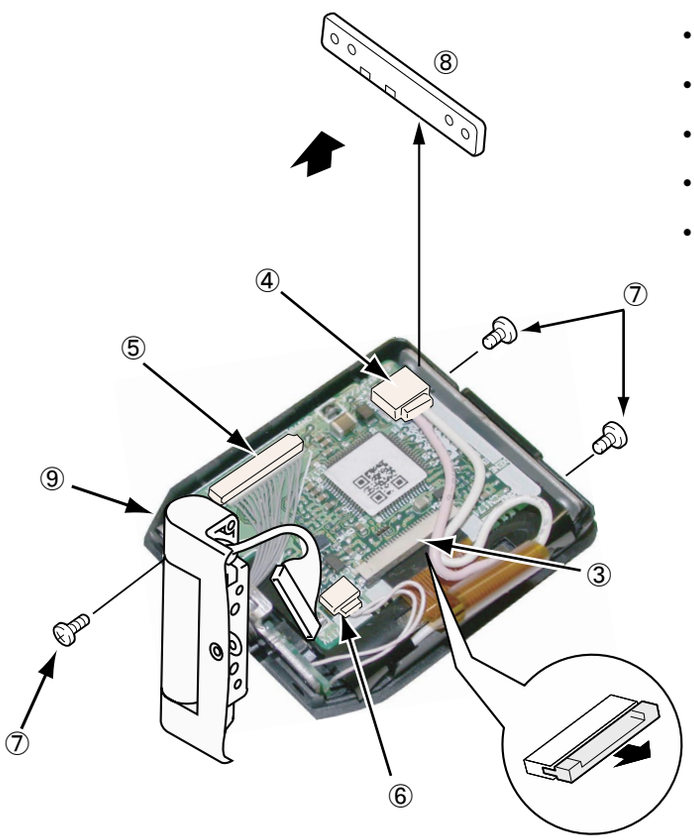
- Remove the 2 Pieces of the Pad ① .
- Remove the 2 Pieces of screws ② (M1.7 x 3).
- Remove the 2 Pieces of screws ③ (M1.7 x 4).
- Remove the screws ④ (M1.7 x 3.5).
- Carefully remove the LCD unit from the back cabinet.
- Pull out the connector ⑤ from the back cabinet



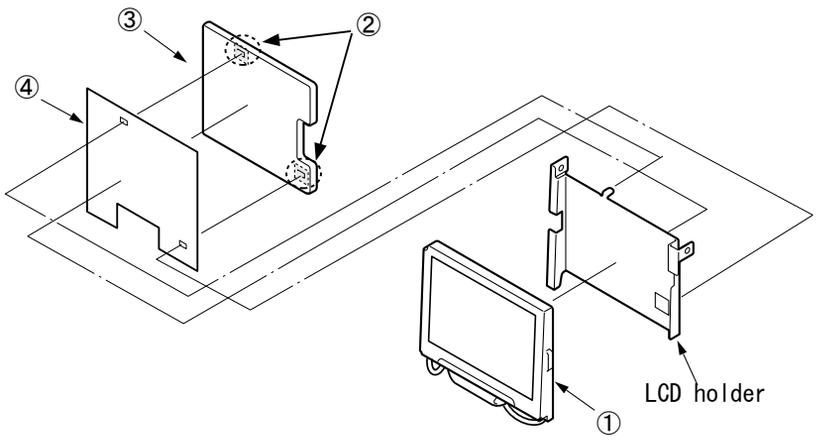
- Rotate the LCD unit approx. 45 degree in an arrow direction.
- Remove the 4 pieces of screws ① (M2 x 3).



- Remove the back LCD cover ② .

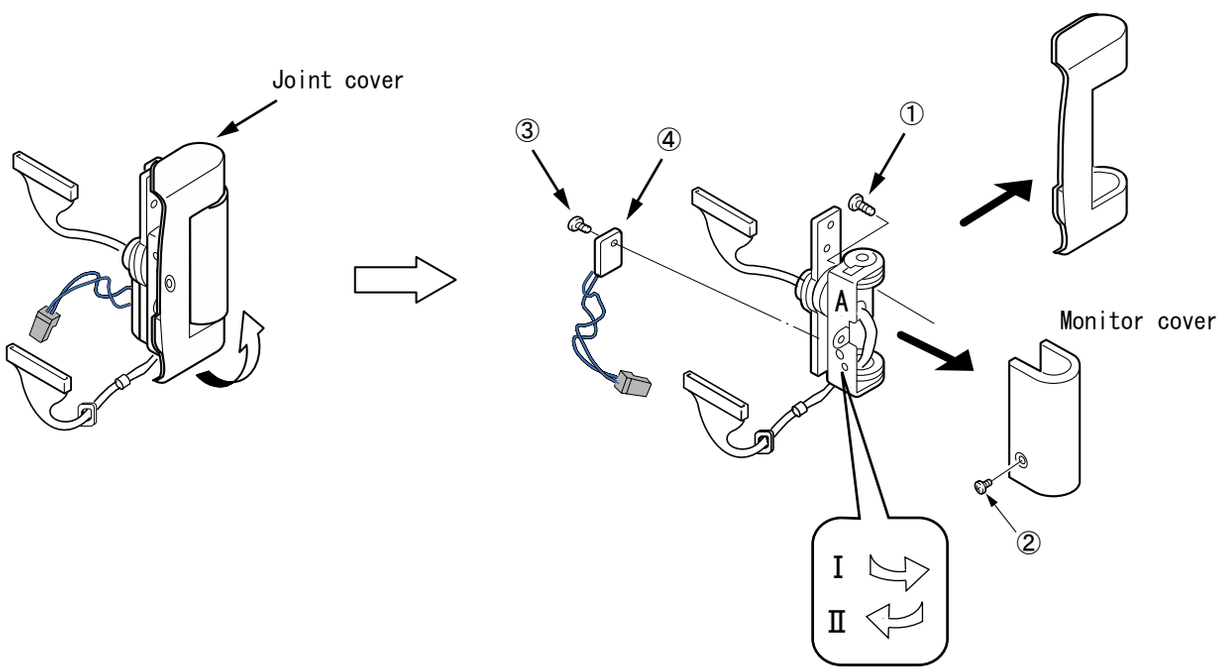


- Remove the FPC ③ and connector ④ .
- Remove the connector ⑤ and the connector, ⑥ .
- Remove the 3 pieces of screws ⑦ (M1.7 x 2).
- Remove the LCD side holder ⑧ .
- Remove the front cover ⑨ .



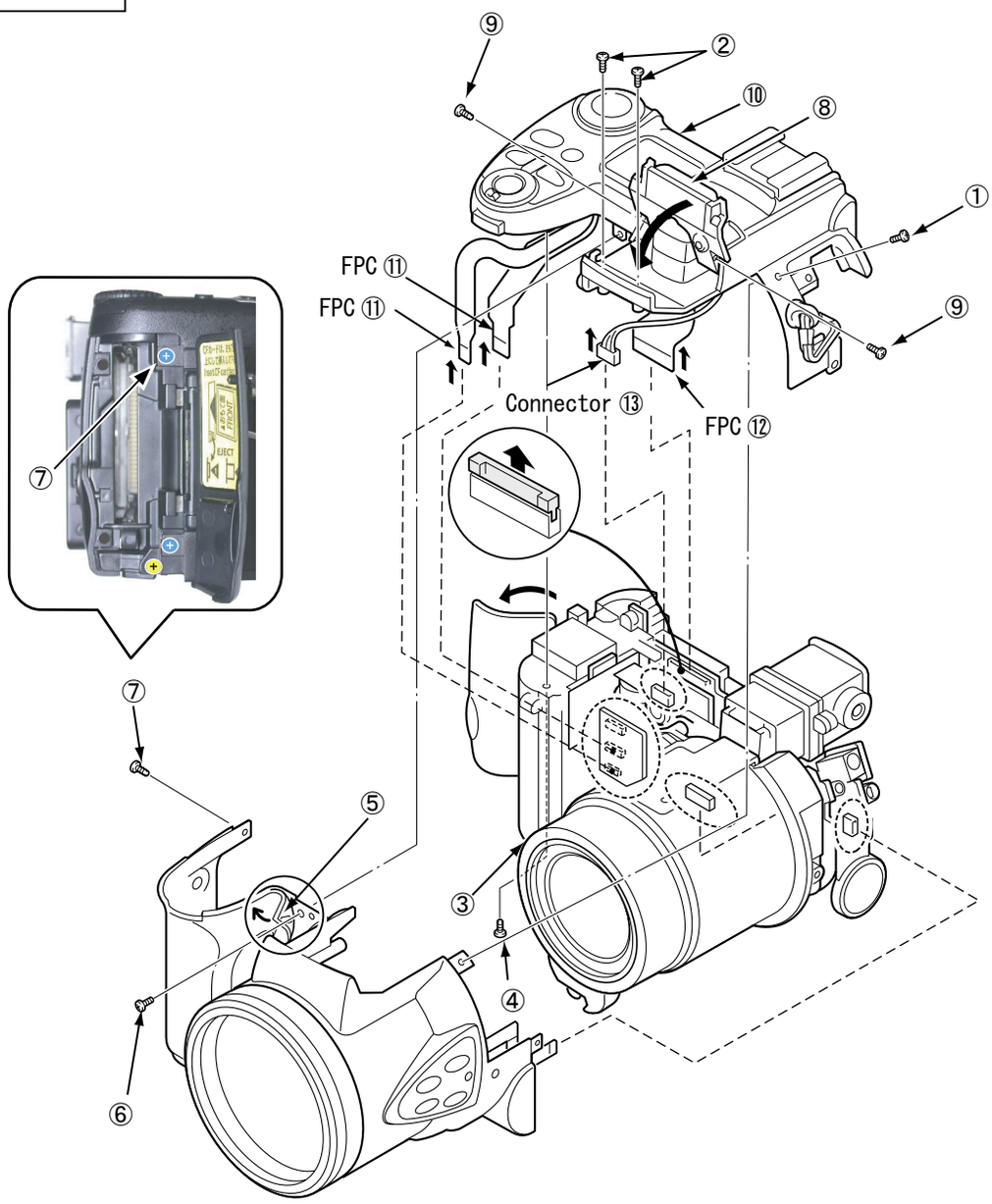
- Remove the LCD ① from the LCD holder.
- Remove the 2 pieces of solders ② .
- Remove the LCD PCB VF-1 ③ .
- Remove the spacer ④ .

4. JOINT UNIT



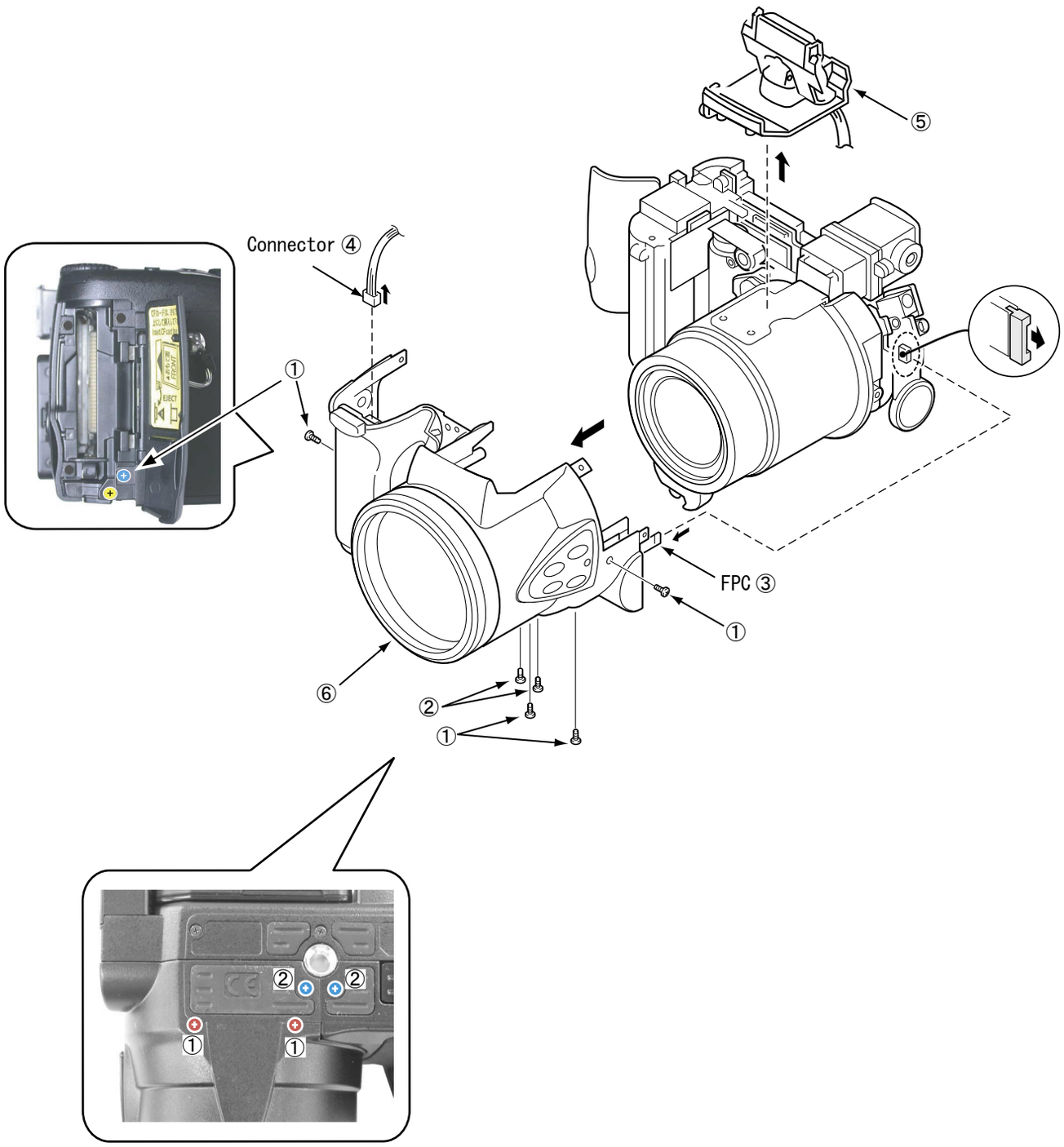
- Remove the joint cover from the joint unit by lifting it up from the bottom.
- Remove the 1 piece of screw ① (M1.7 x 4).
- Rotate the A of the joint approx. 90 degree in an arrow direction(Ⅰ).
- Remove the 1 piece of screw ② (M1.7 x 2).
- Rotate the A of the joint approx. 90 degree in an arrow direction(Ⅱ).
- Remove the Monitor cover.
- Remove the 1 piece of screw ③ (M1.7 x 2.5).
- Remove the TB-1 PCB ④ .

5. TOP CABINET



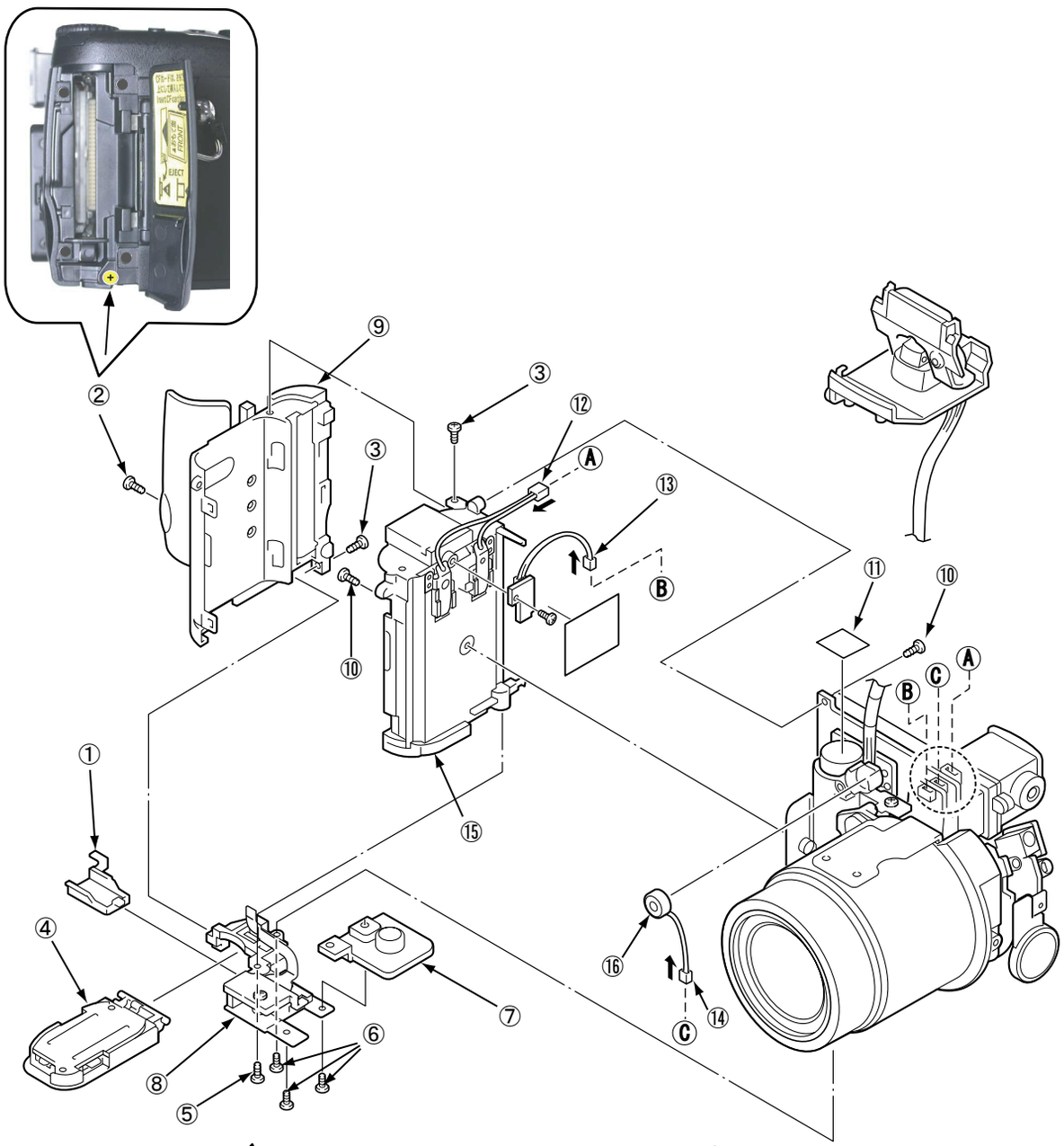
- Remove the screw ① (M1.7 x 2.5).
- Remove the 2 Pieces of screws ② (M1.7 x 3.5).
- Open the battery cover ③ .
- Remove the screw ④ (M1.7 x 3).
- Ture the cover grip ⑤ and then remove the screw ⑥ (M1.7 x 4.5).
- Remove the screws ⑦ (M1.7 x 4).
- Close the SB ⑧ .
- Remove the 2 Pieces of screws ⑨ (M1.7 x 4.5).
- Carefully remove the top cabinet ⑩ from the camera unit.
- Remove the 2 Pieces of FPC ⑪ .
- Remove the FPC ⑫ and the connector ⑬ .
- Remove the top cabinet ⑩ .

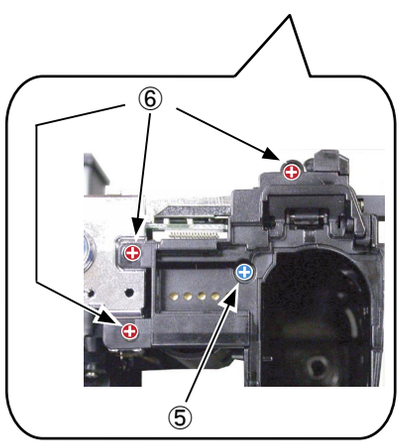
6. LENS UNIT COVER



- Remove the 4 Pieces of screws ① (M1.7 x 4).
- Remove the 2 Pieces of screws ② (M1.7 x 3.5).
- Remove the FPC ③ and the connector ④ .
- Carefully remove the SB unit ⑤ from the camera unit.
- Carefully remove the Lens unit cover ⑥ from the camera unit.

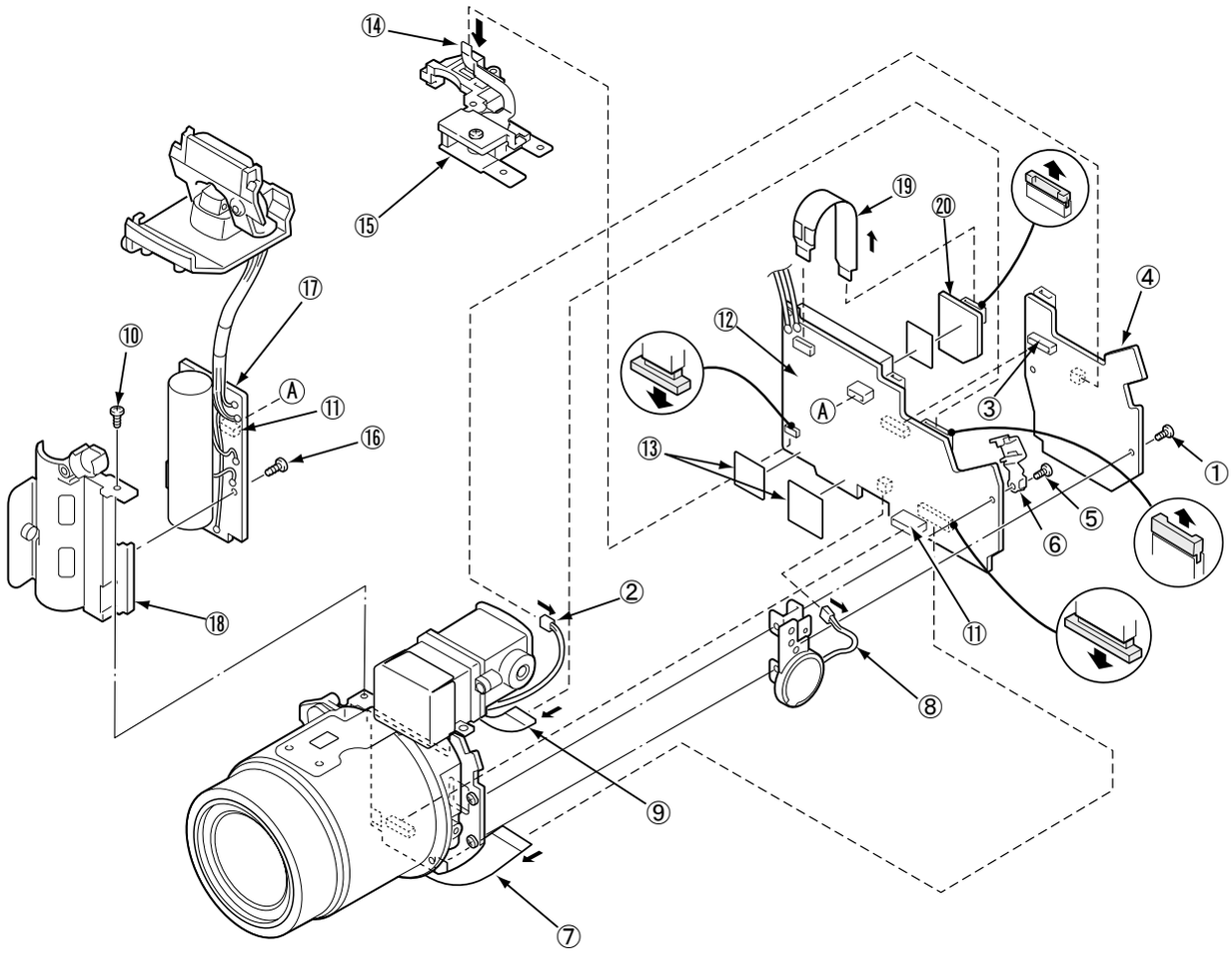
7. BATTERY UNIT





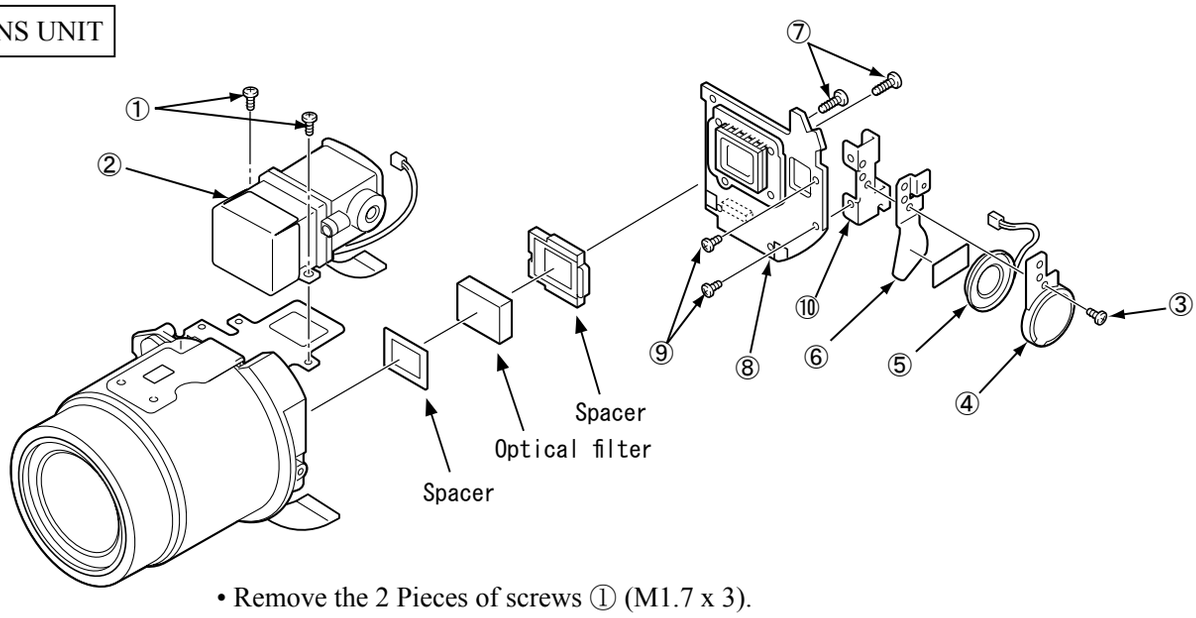
- Remove the Terminal cover ① .
- Remove the screw ② (M1.7 x 3).
- Remove the 2 Pieces of screws ③ (M1.7 x 4).
- Remove the battery cover ④ by pulling it out from the joint part.
- Remove the screw ⑤ (M1.7 x 4).
- Remove the 3 Pieces of screws ⑥ (M1.7 x 3), and then remove the stand ⑦ .
- Carefully come the bottom holder ⑧ to the surface .
- Remove the C/F card holder ⑨ .
- Remove the 2 Pieces of screws ⑩ (M1.7x4).
- Remove the spacer ⑪ .
- Remove the connector ⑫ ,connector ⑬ and the connector ⑭ .
- Remove the battery holder ⑮ .
- Remove the microphone ⑯ .

8. CP-1 PCB, CA-1 PCB, PW-1 PCB



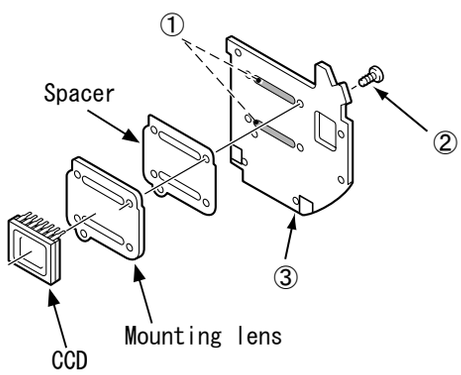
- Remove the screw ① (M1.7x2.5).
- Remove the connector ② ,the connector ③ ,and then remove the PW-1 PCB ④ .
- Remove the screw ⑤ (M1.7x2.5),and then remove the USB holder ⑥ .
- Remove the FPC ⑦ and the connector ⑧ .
- Remove the FPC ⑨ .
- Remove the screw ⑩ (M1.7x3).
- Remove the 2 Pieces of connector ⑪ , and then remove the CP-1 PCB ⑫ .
- Remove the 2 Pieces of spacers ⑬ .
- Remove the FPC ⑭ , and then remove the holder unit ⑮ .
- Remove the screw ⑯ (M1.7x4).
- Remove the SB unit ⑰ from the condenser holder ⑱ .
- Remove the FPC ⑲ .
- Remove the TB-2 PCB ⑳ .

9. LENS UNIT



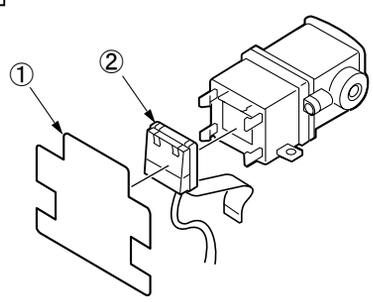
- Remove the 2 Pieces of screws ① (M1.7 x 3).
- Remove the EVF ② .
- Remove the screw ③ (M1.7 x 3).
- Remove the speaker holder A ④ , the speaker ⑤ and the speaker holder B ⑥ .
- Remove the 2 Pieces of screws ⑦ (M1.7 x 6).
- Remove the CA-1 PCB ⑧ from the lens unit.
- The spacer, optical filter and spacer can be removed.
- Remove the 2 Pieces of screws ⑨ (M1.7 x 2.5), and then remove the CA-1 holder ⑩ .

10. CCD



- Remove the solder ① of the CA-1 PCB.
- Remove the 1 piece of screw ② (M1.7x 2.5).
- Remove the CCD, Mounting lens and spacer from the CA-1 PCB ③ .

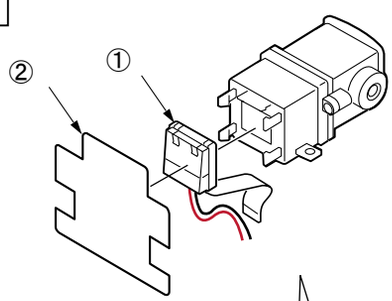
11. EVF



- Remove the EVF spacer ① .
- Remove the LCD ② .

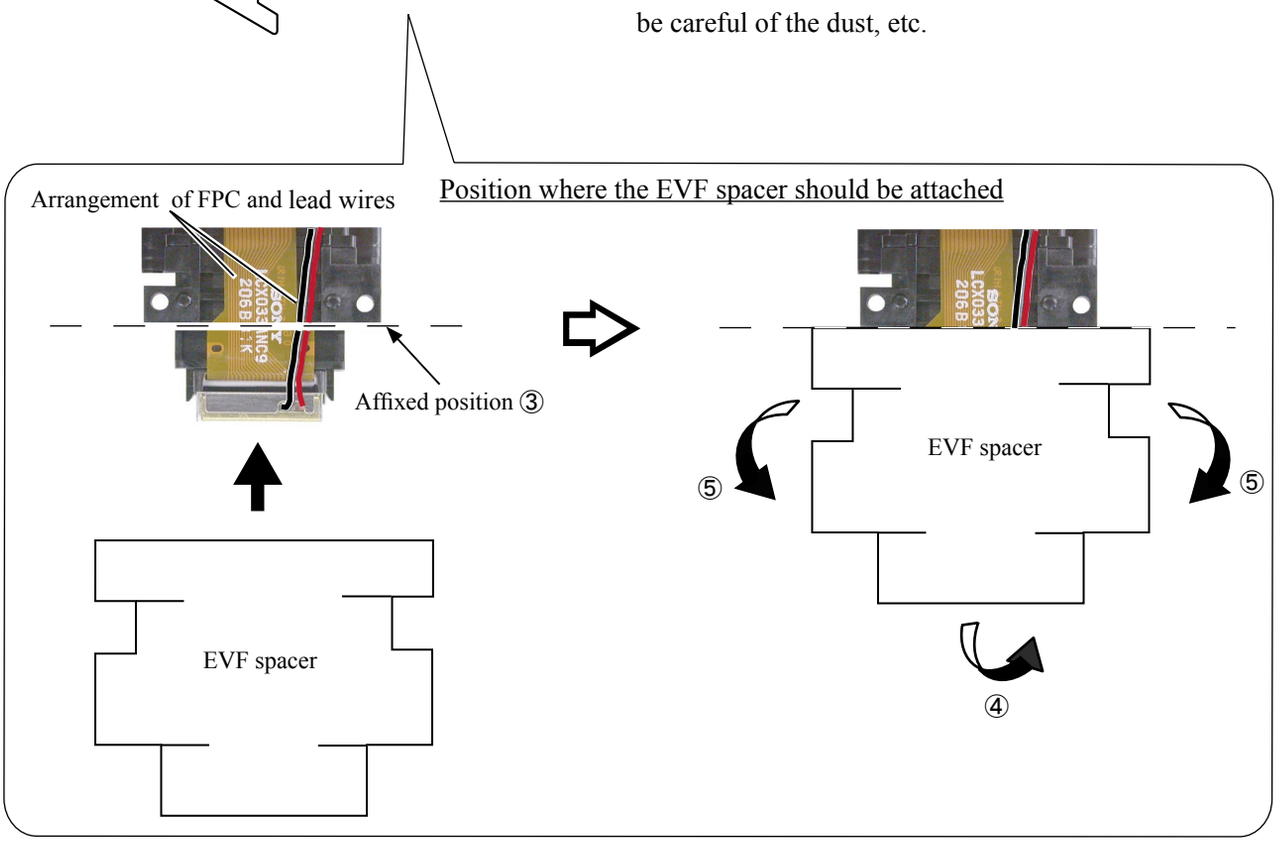
ASSEMBLY

1. EVF

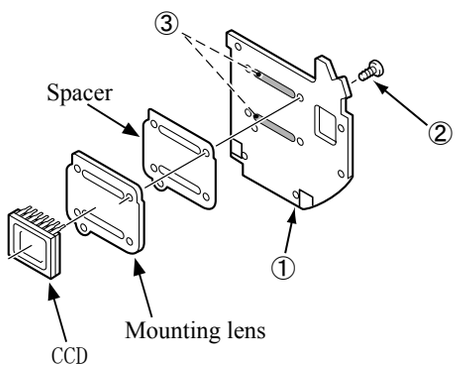


• Attach the LCD ① to the finder unit.
• Align the spacer ② with the position ③ .
Affix the spacer,and then bent it in order of ④ , ⑤

Note: When inserting the LCD unit into the finder unit, be careful of the dust, etc.

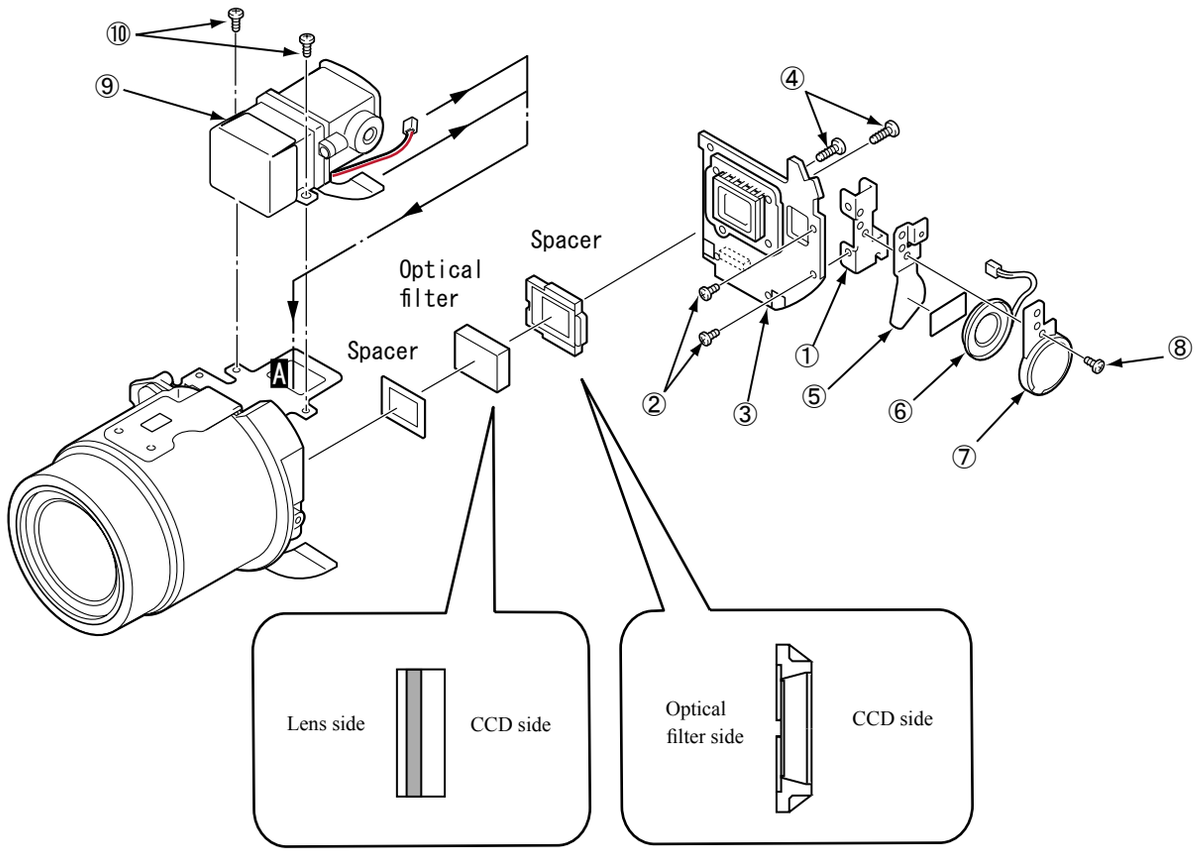


2. CCD



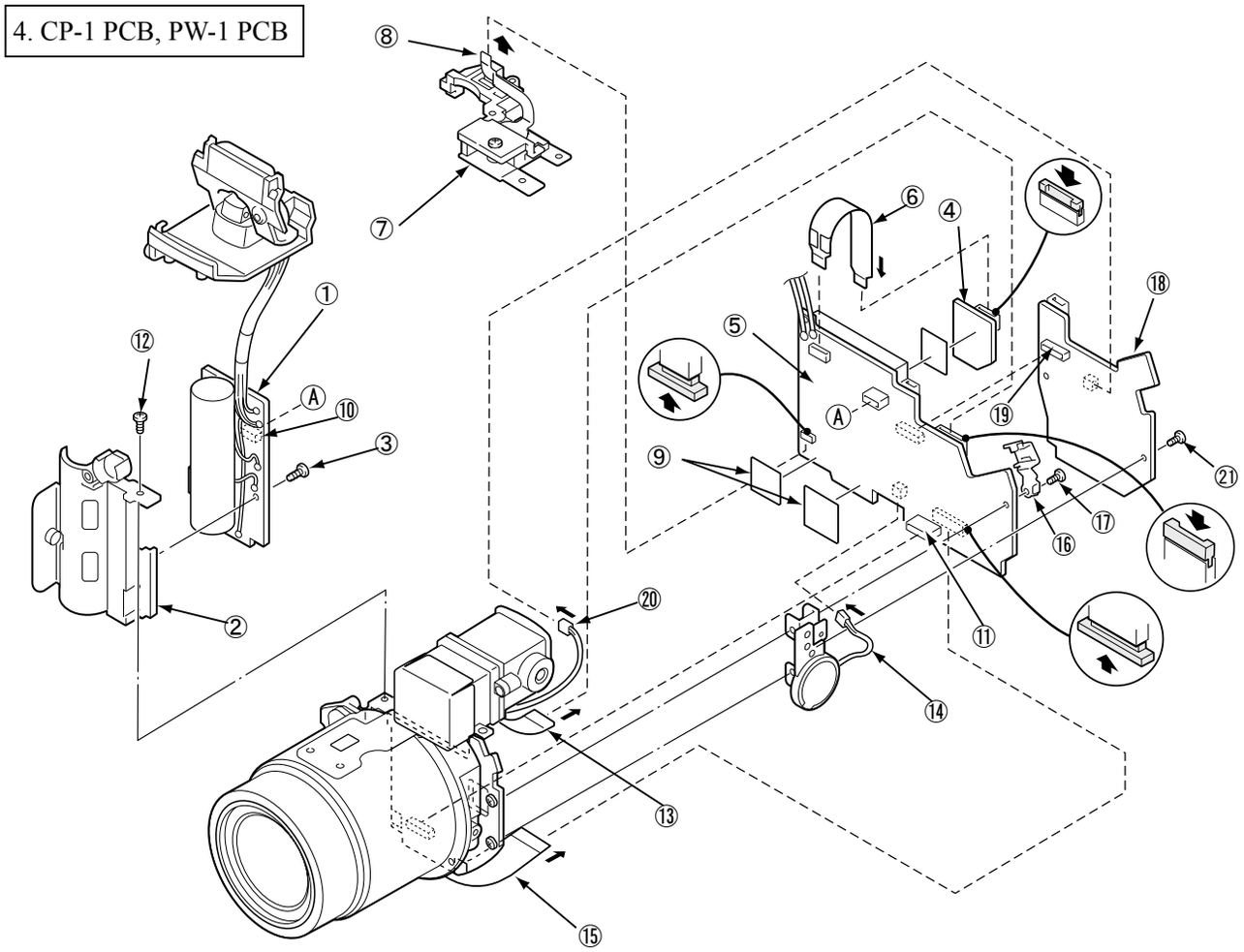
• Assemble the spacer, mounting lens and CCD to the CA-1 PCB ① .
• Attach the screws ② (M1.7 x 2.5).
• Solder the CA-1 PCB ③ .

3. LENS UNIT



- Attach the CA-1 holder ③ to the lens unit.
- Attach the 2 pieces of screws ④ (M1.7 x 2.5).
- Assemble the spacer, optical filter and spacer into the lens unit.
- Attach the CA-1 PCB ① to the lens unit.
- Attach the 2 pieces of screws ② (M1.7 x 6).
- Assemble the speaker holder B ⑤ , the speaker ⑥ and the speaker holder A ⑦ .
- Attach the screw ⑧ (M1.7 x 3).
- Pass the connector and FPC of EVF unit through the hole A of the lens unit.
- Attach the EVF ⑨ .
- Attach the 2 pieces of screws ⑩ (M1.7 x 3).

4. CP-1 PCB, PW-1 PCB



- Attach the SB unit ① to the condenser holder ② .
- Attach the screw ③ (M1.7 x 4).
- Attach the TB-2 OCB ④ to the CP-1 PCB ⑤ .
- Connect the FPC ⑥ .
- Connect the FPC ⑧ of the holder unit ⑦ .
- Attach the 2 pieces of spacer ⑨ .
- Connect the SB unit ① and CP-1 PCB by the connector ⑩ .
- Connect the CP-1 PCB ⑤ and CA-1 PCB by the connector ⑪ .
- Attach the screw ⑫ (M1.7 x 3).
- Connect the FPC ⑬ (Fig.1).
- Connect the connector ⑭ and connector ⑮ (Fig.2).
- Attach the USB holder ⑯ .
- Attach the screw ⑰ (M1.7 x 2.5).
- Connect the PW-1 PCB ⑱ and CP-1 PCB ⑤ by the connector ⑲ .
- Connect the connector ⑳ (Fig.3).
- Attach the screw㉑ (M1.7 x 2.5).

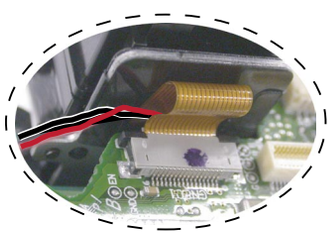


Fig. 1

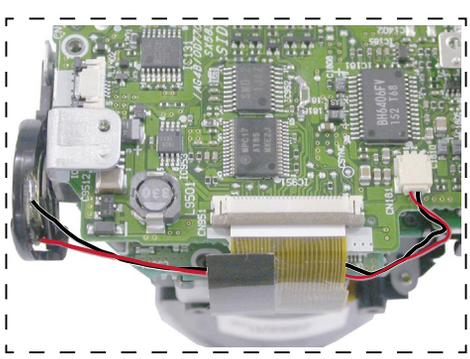


Fig. 2

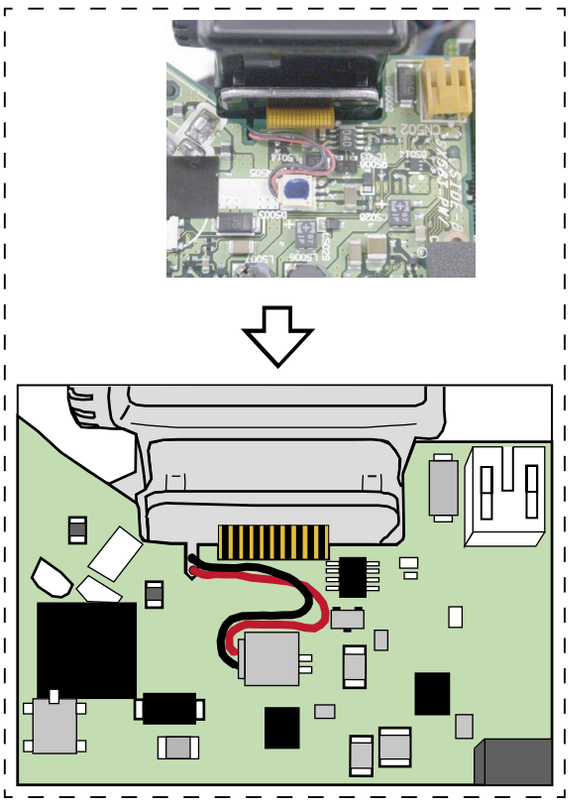
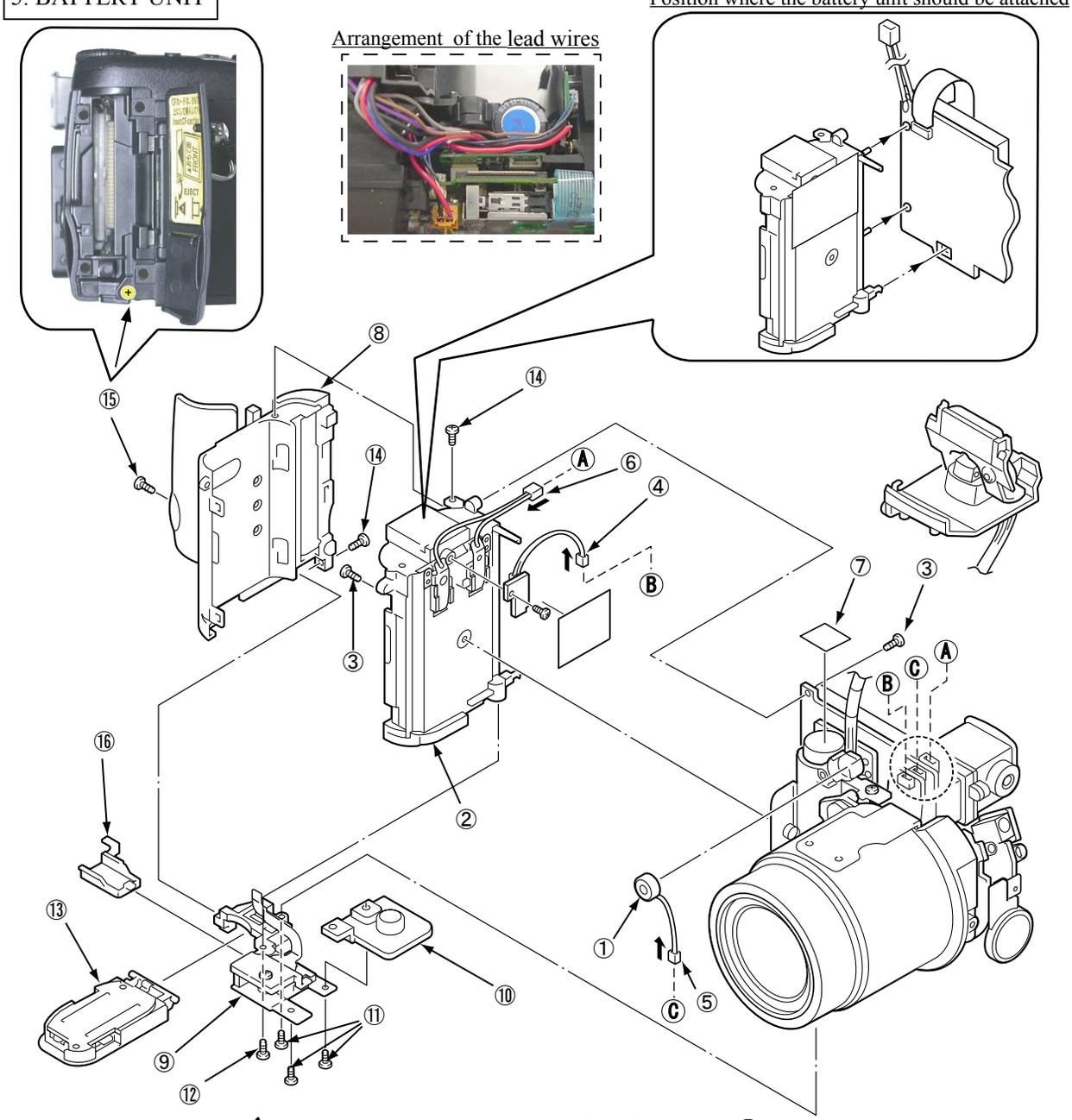


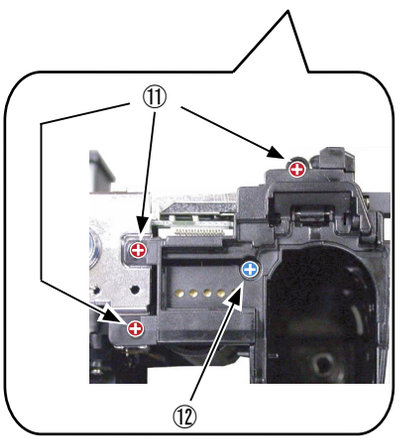
Fig.3

5. BATTERY UNIT

Position where the battery unit should be attached

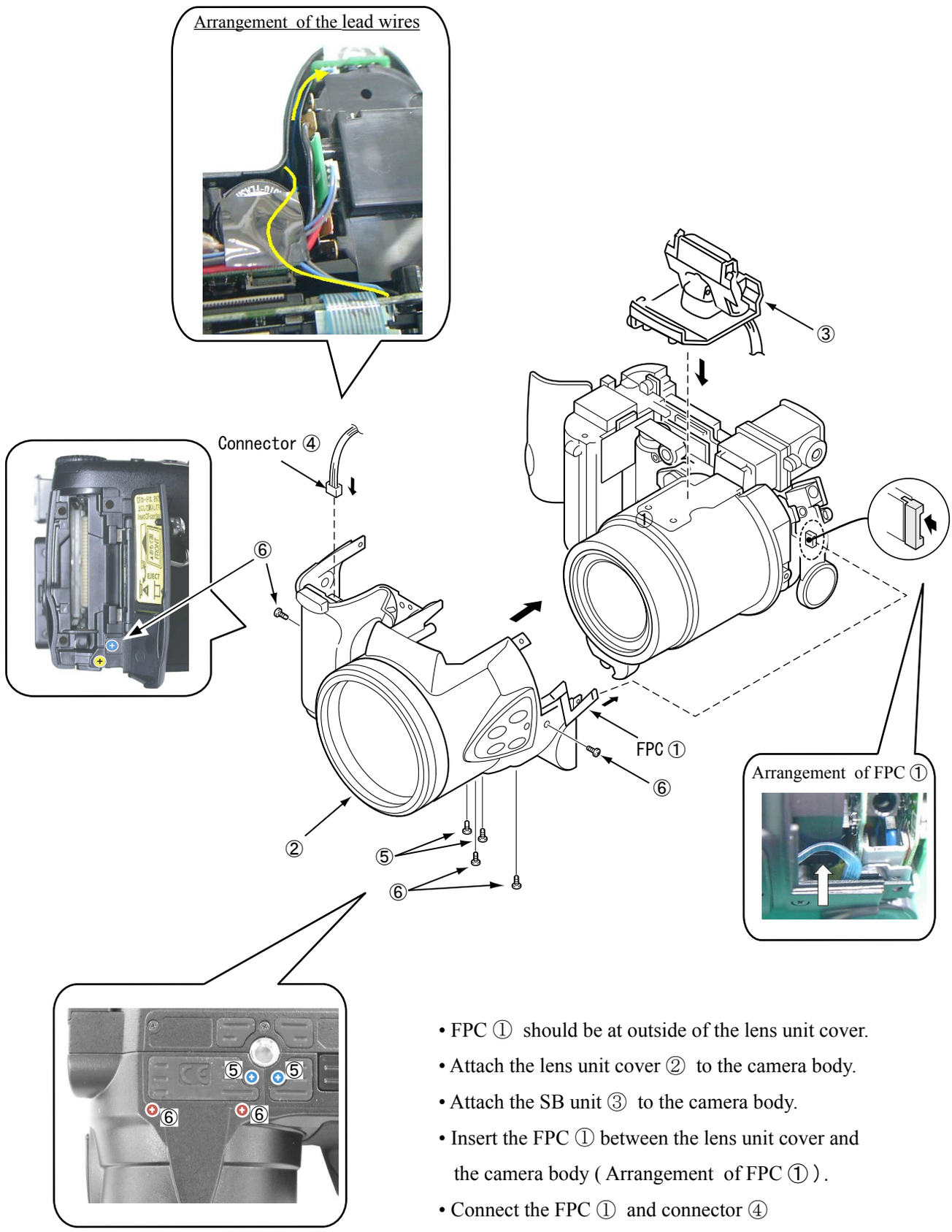
Arrangement of the lead wires





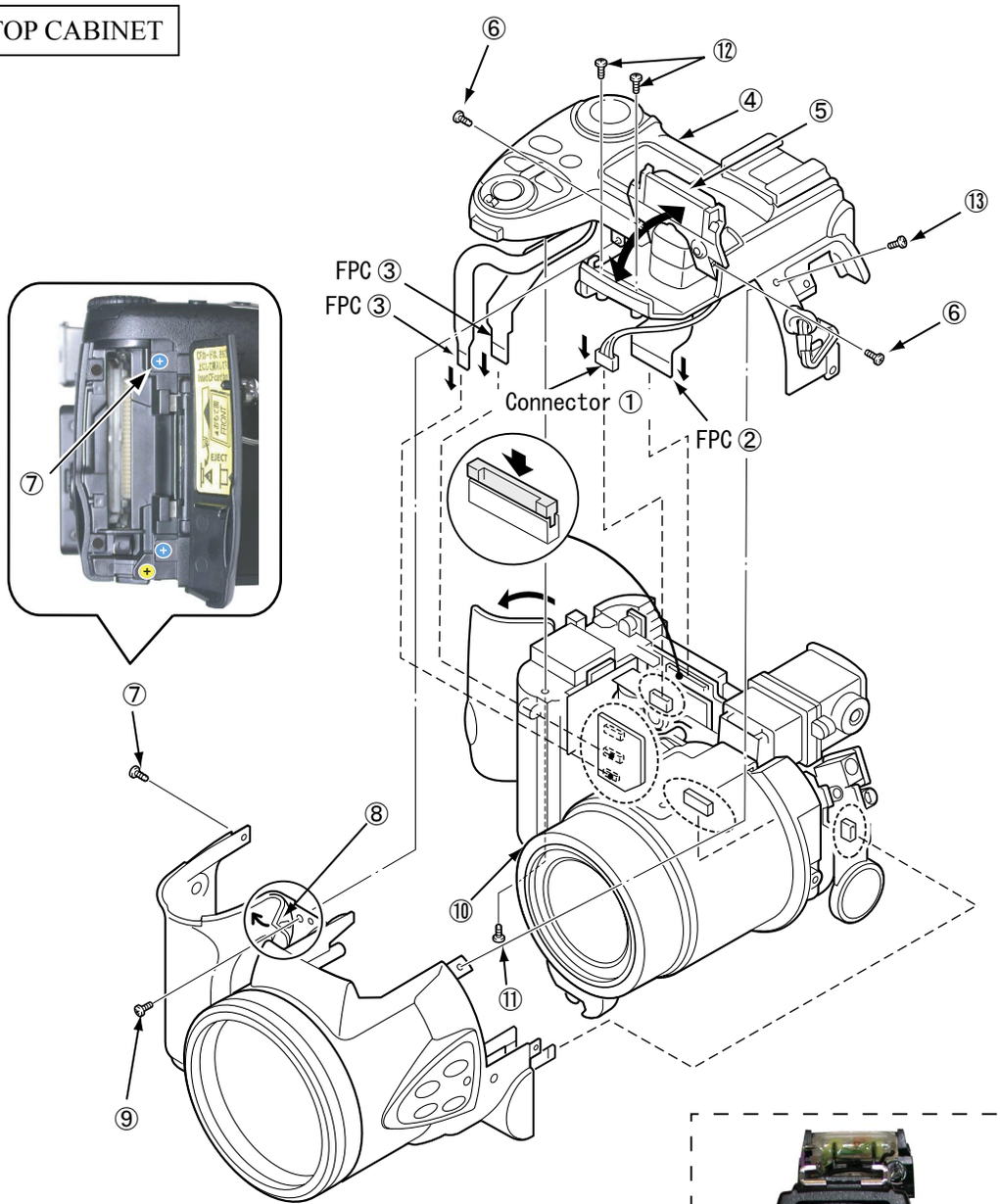
- Attach the microphone ① .
- Attach the battery holder ② (Position where the battery unit should be attached).
- Attach the 2 pieces of screws ③ (M1.7 x 4).
- Connect the connector ④ ,connector ⑤ and connector ⑥ .
- Attach the spacer ⑦ .
- Attach the C/F card holder ⑧ .
- Attach the bottom holder ⑨ and the stand ⑩ .
- Attach the 3 pieces of screws ⑪ (M1.7 x 3).
- Attach the screw ⑫ (M1.7 x 4).
- Attach the battery cover ⑬ .
- Attach the 2 pieces of screws ⑪ (M1.7 x 4).
- Attach the screw ⑮ (M1.7 x 3).
- Attach the terminal cover ⑯ .

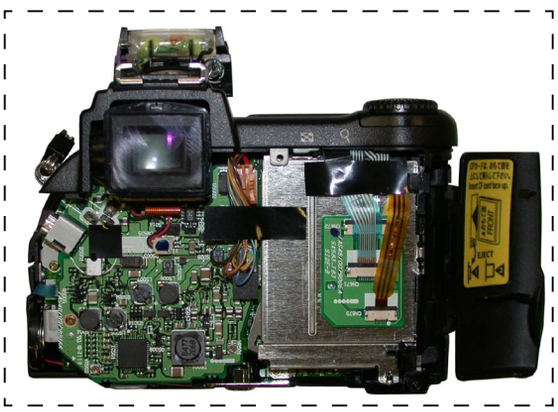
6. LENS UNIT COVER



- FPC ① should be at outside of the lens unit cover.
- Attach the lens unit cover ② to the camera body.
- Attach the SB unit ③ to the camera body.
- Insert the FPC ① between the lens unit cover and the camera body (Arrangement of FPC ①) .
- Connect the FPC ① and connector ④ (Arrangement of the lead wires).
- Attach the 2 pieces of screws ⑤ (M1.7 x 3.5).
- Attach the 4 pieces of screws ⑥ (M1.7 x 4).

7. TOP CABINET

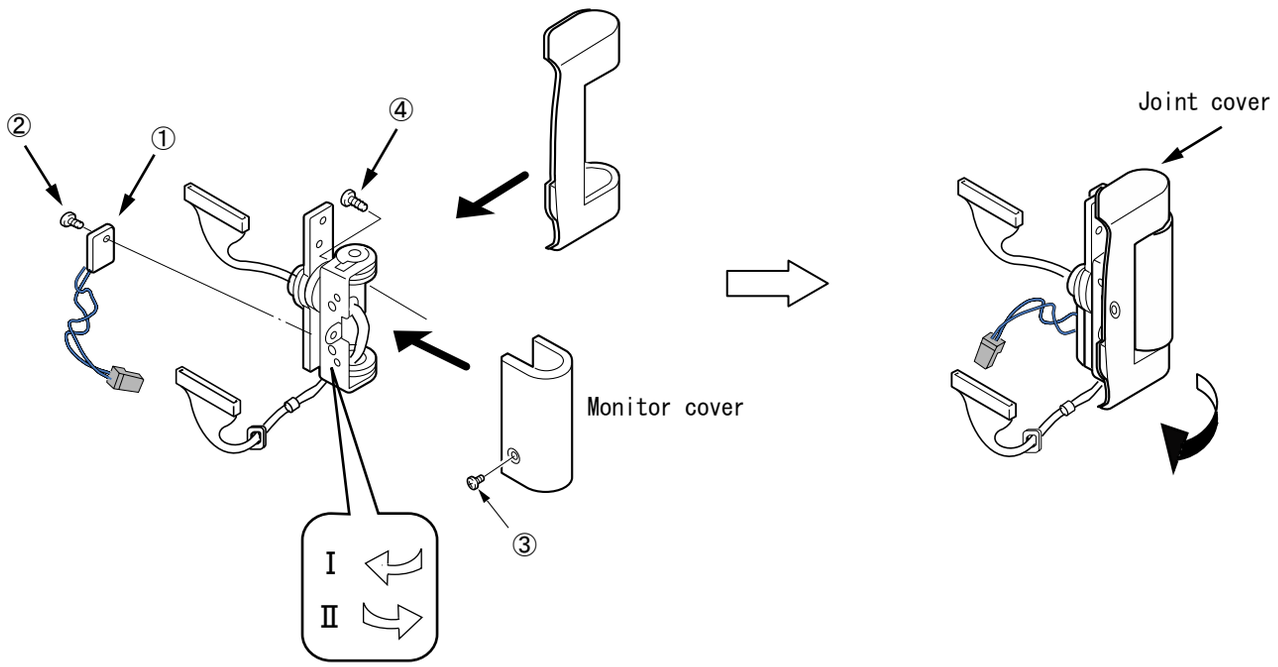




Arrangement of the lead wires

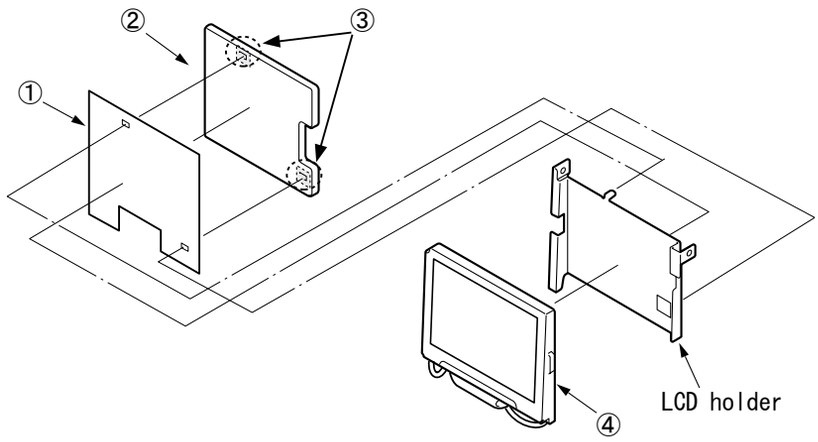
- Connect the connector ① and FPC ② .
- Connect the 2 pieces of FPC ③ .
- Attach the top cover ④ to the camera body.
- Close the SB ⑤ .
- Attach the 2 pieces of screws ⑥ (M1.7 x 4.5).
- Attach the screw ⑦ (M1.7 x 4).
- Ture the cover grip ⑧ and then attach the screw ⑨ (M1.7 x 4.5).
- Open the battery cover ⑩
- Attach the screw ⑪ (M1.7 x 3).
- Open the SB ⑤ .
- Attach the 2 pieces of screws ⑫ (M1.7 x 4.5).
- Attach the screw ⑬ (M1.7 x 2.5).

8. JOINT UNIT

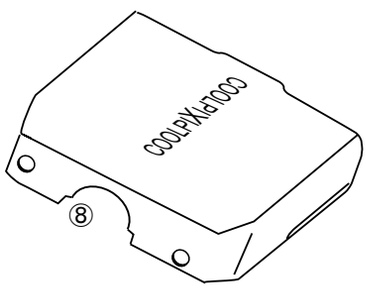


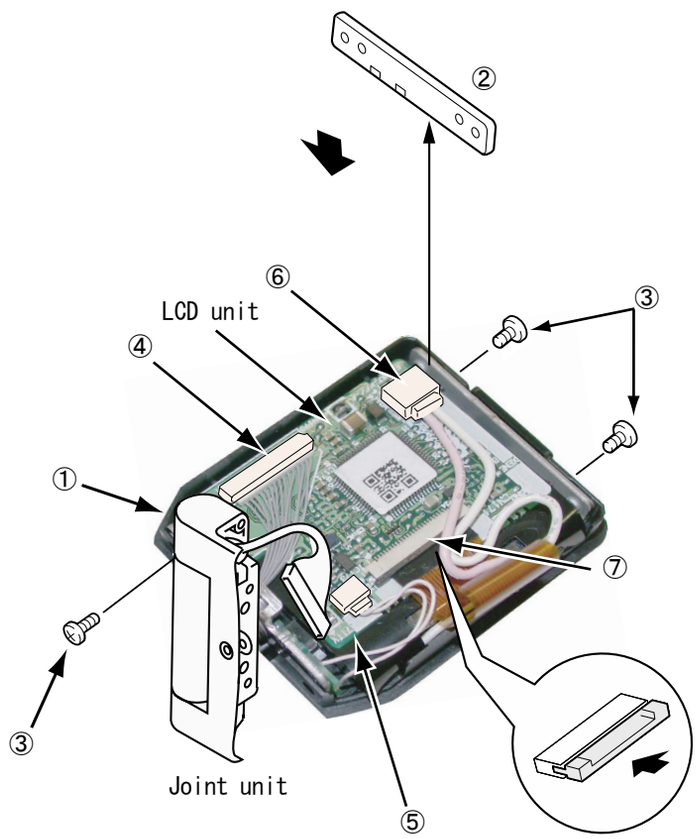
- Attach the TB-1 PCB ① to the joint unit.
- Attach the 1 piece of screw ② (M1.7 x 2.5).
- Rotate the A of the joint approx. 90 degree in an arrow direction(Ⅰ).
- Attach the monitor cover.
- Rotate the A of the joint approx. 90 degree in an arrow direction(Ⅱ).
- Attach the 1 piece of screw ③ (M1.7 x 2).
- Attach the 1 piece of screw ④ (M1.7 x 4).
- Attach the joint cover.

9. LCD UNIT

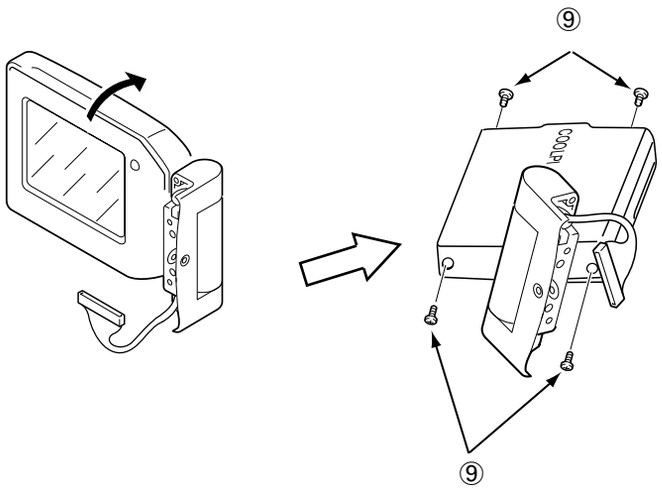


- Attach the spacer ① to the LCD holder.
- Attach the LCD PCB VF-1 ② .
- Solder the 2 pieces of ③ .
- Attach the LCD ④ to the LCD holder.



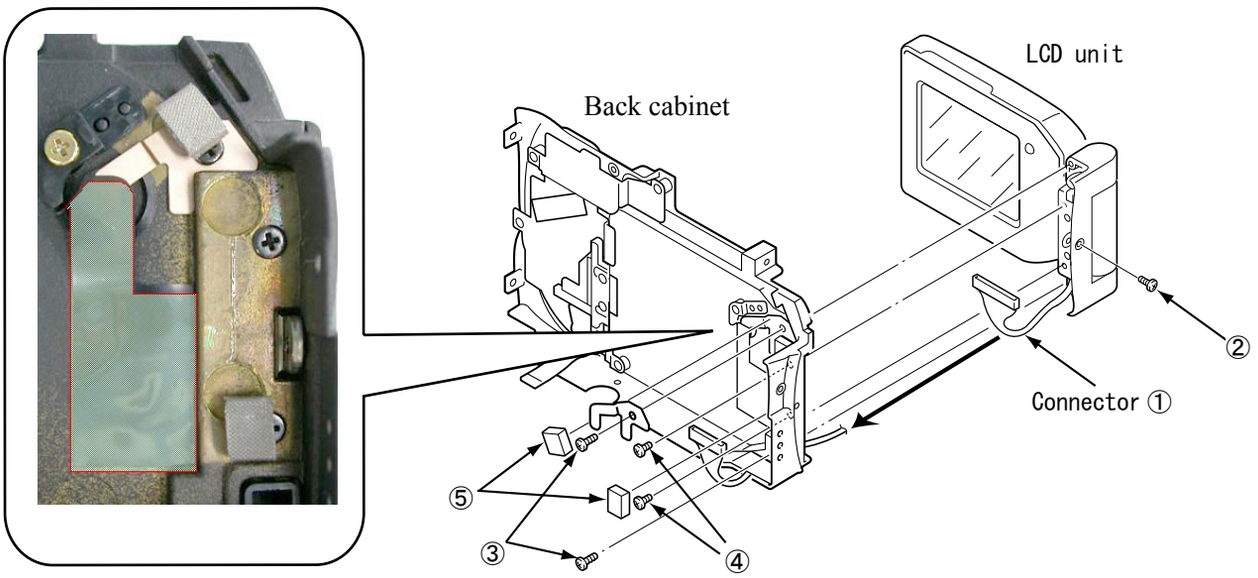


- Attach the front cover ① to the front LCD cover.
- Attach the LCD side holder ② .
- Attach the Joint unit to the front cover ① .
- Attache the 3 pieces of screws ③ (M1.7 x 2).
- Connect the connector ④ and the connector ⑤ .
- Connect the connector ⑥ and the FPC ⑦ .
- Attach the back LCD cover ⑧ .



• Rotate the LCD unit approx. 45 degree in an arrow direction.

• Attach the 4 pieces of screws ⑨ (M2 x 3).



• Pass the connector ① through the hole of the back cabinet and then pull it out to the front side of the rear cover.

• Attach the back cabinet to the front LCD unit.

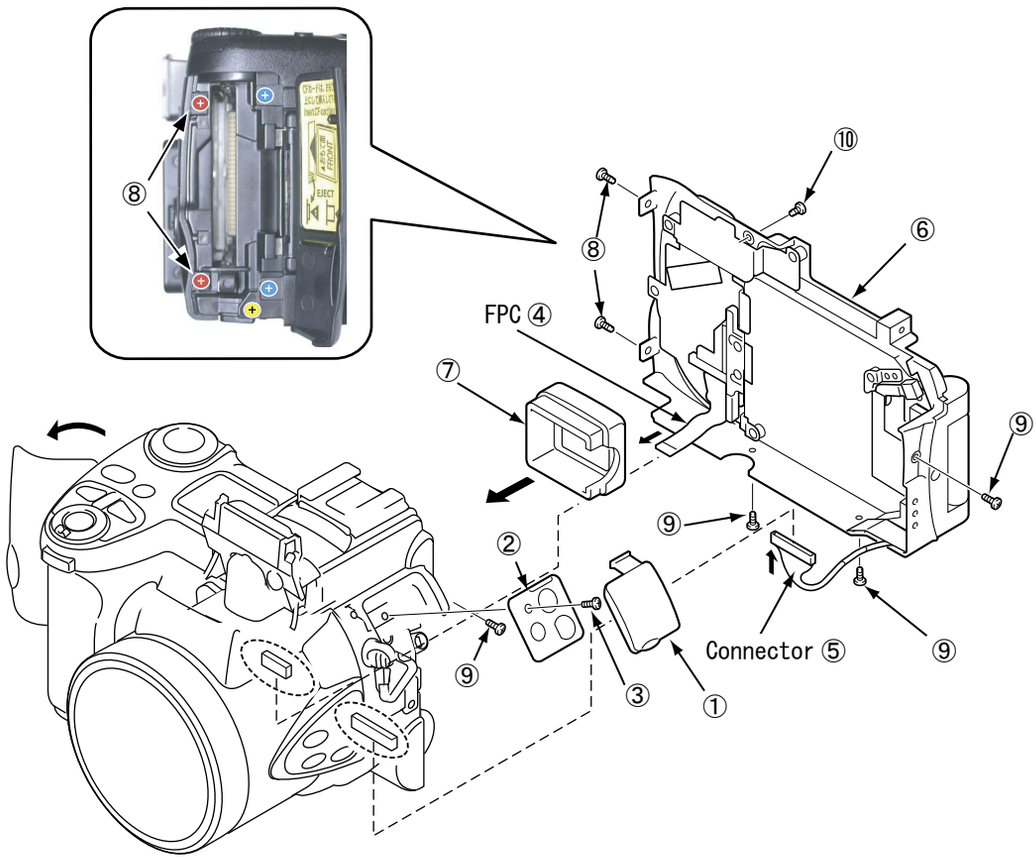
• Attache the screws ② (M1.7 x 3.5).

• Attache the 2 Pieces of screws ③ (M1.7 x 4).

• Attache the 2 Pieces of screws ④ (M1.7 x 3).

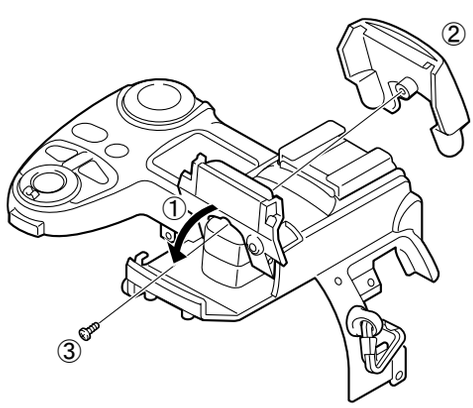
• Attache the 2 Pieces of Pad ⑤ .

10. BACK CABINET



- Attach the Jack cover ① .
- Attach the Jack Holder ② and then attach the screw ③ (M1.7 x 3).
- Connect the FPC ④ and the connector ⑤ .
- Attach the back cabinet ⑥ .
- Attach the Hood VF ⑦ .
- Attache the 2 Pieces of screws ⑧ (M1.7 x 4).
- Attache the 4 Pieces of screws ⑨ (M1.7 x 3.5).
- Attache the screw ⑩ (M1.7 x 2.5).

11. SB TOP COVER



- Close the SB ① .
- Attach the SB Top cover ② .
- Open the SB ① .
- Attache the screw ③ (M1.7 x 4.5).

ADJUSTMENT

1. Equipment

IBM compatible PC • AC adapter EH-21 • USB cable • UC-E1 • Oscilloscope

2. Servicing Tools

• Color viewer 5,100 K • Siemens star chart • Calibration software • Chart for color adjustment

3. Adjustment Items and Order

1. Lens Adjustment
2. AWB Adjustment
3. Color Adjustment
4. CCD White Point Defect Detect Adjustment
5. CCD Black Point Defect Detect Adjustment
6. USB Storage information registration
7. LCD Panel Adjustment
   - 7-1. LCD H AFC Adjustment
   - 7-2. LCD RGB Offset Adjustment
   - 7-3. LCD Gain Adjustment
   - 7-4. LCD Blue Brightness Adjustment
   - 7-5. LCD Red Brightness Adjustment

Note) If replacing the lens, CCD, optical filter, CA-1 or CP-1 board, it is necessary to perform the above 1-5 adjustments. 2-5 adjustments other than these should be carried out in sequence.

4. Setup

1) System requirements
- Windows98® , Me, 2000 or XP
- IBM-compatible PC with Pentium processor
- CD-ROM drive
- 3.5-inch high-density diskette drive
- USB port
- 40 MB RAM
- Hard disk drive with at least 15 MB available
- VGA or SVGA monitor with at least 256-color display

2) Installing calibration software
- Insert the calibration software installation diskette into your diskette drive.
- Open Explorer.
- Copy the DscCalDI_128 folder on the floppy disk in the FD drive to a folder on the hard disk.

5. Installing USB drive

Install the USB drive with camera or connection kit for PC.

6. Color Viewer

Turn on the switch and wait for 30 minutes for aging to take place before using Color Pure.

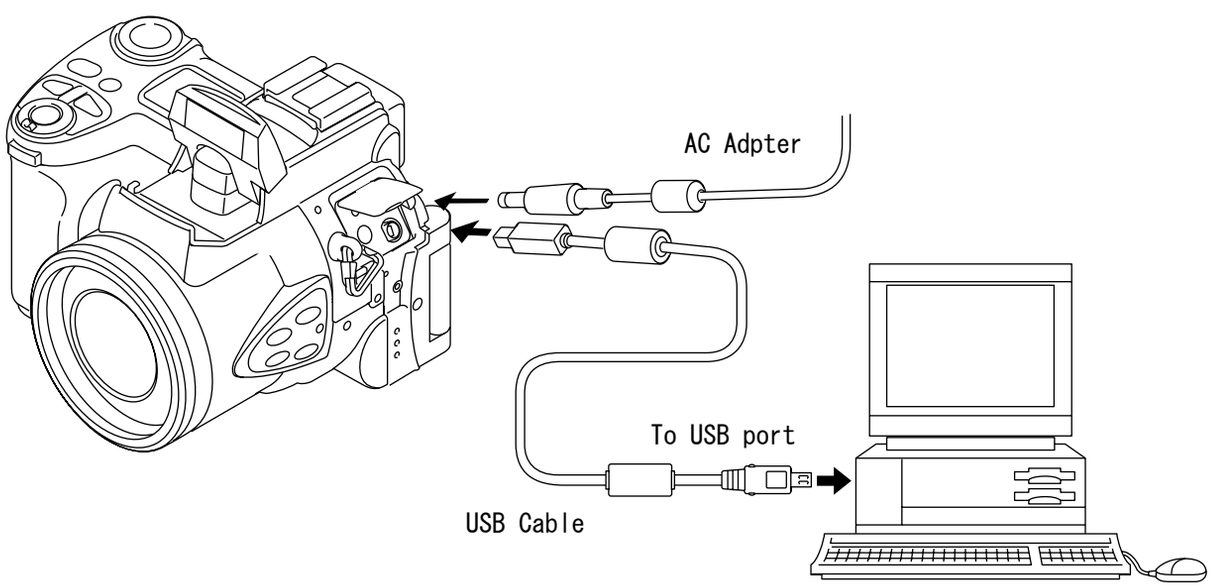
7. Adjustment items required at replacement of parts

	Lens Adj.	AWB	Color Adj.	CCDDefect	LSDPanel	View Finder	USB
Lens Unit	○	○	○	○	×	×	×
Optical filter	○	○	○	○	×	×	×
CCD	○	○	○	○	×	×	×
CA-1	○	○	○	○	×	×	×
CP-1	○	○	○	○	△	×	○
PW-1	×	×	×	×	×	×	×
VF-1	×	×	×	×	△	×	×

○ Adjustment required, ×Adjustment not required, △ Adjust the camera when at need

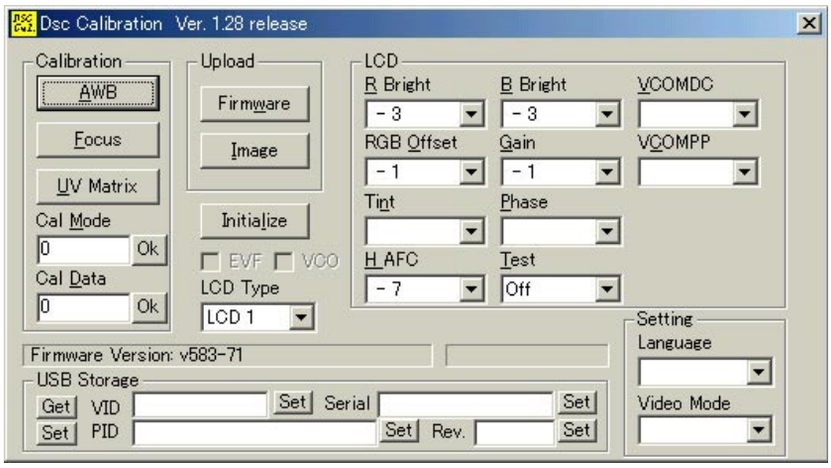
8. Connecting the camera to the computer

1) Line up the arrow on the cable connector with the notch on the camera's USB port. Insert the connector.
2) Locate a USB port on the back of your computer.



9. Calibration software

After starting the applicable calibration software, the following is displayed on the PC monitor.



10. Lens Adjustment

[Preparation]

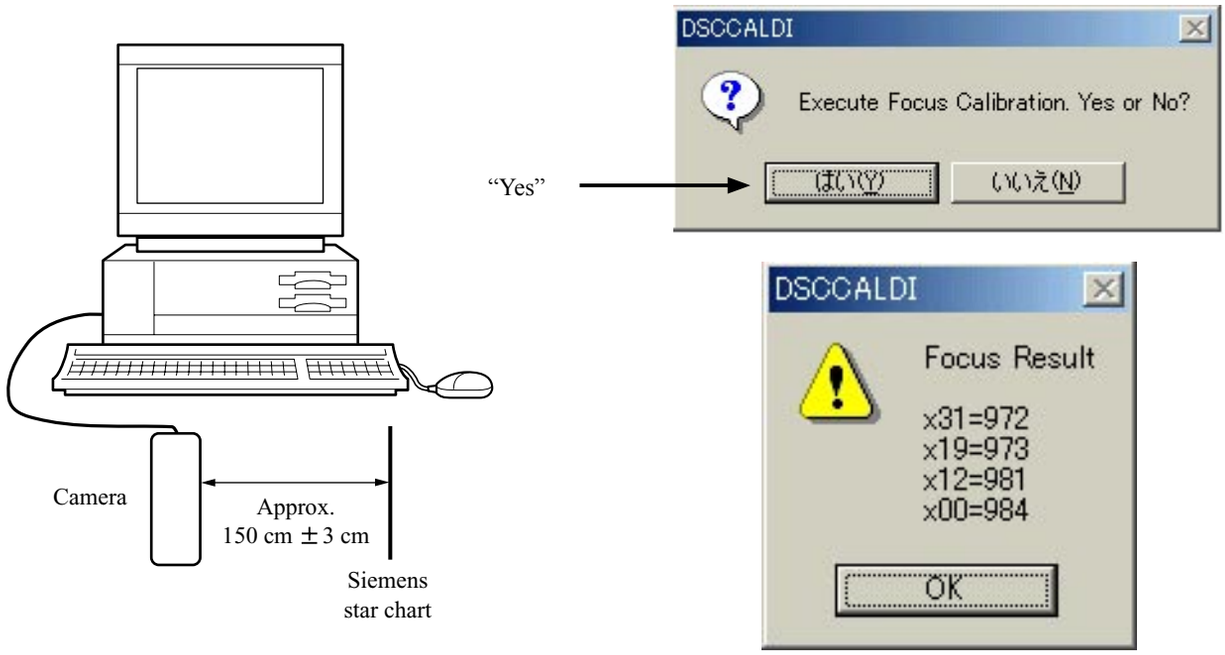
- Siemens star chart
- POWER switch: ON

[Adjustment condition]

- Make a copy of A4 size siemens chart in enlarged A3 size or larger.
- Illumination above the subject should be 400 lux ± 10 %.
- Set the siemens star chart 150 cm ± 3 cm (between Siemens star chart and the surface of camera's protection lens)

[Adjustment method]

1. Double-click on the DscCalDi128.
2. Set the siemens star chart 150 cm ± 3 cm so that it be-comes center of the screen. LCD (Test → Monitor)
3. Click the Focus, and click the Yes.
4. Lens adjustment value will appear on the screen.
   adjustment value is 1000 ± 64
5. Click the OK.



11. AWB Adjustment

[Preparation]

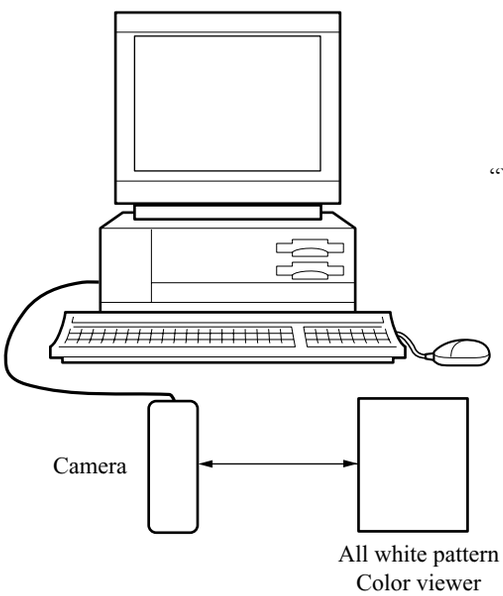
- Color viewer
- POWER switch: ON (set to Any MODE)

[Note]

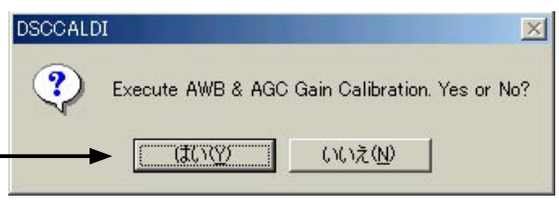
When setting the camera in place, set it to an angle so that nothing appears in any part of the color viewer except the white section. (Do not enter any light.)

[Adjusting method]

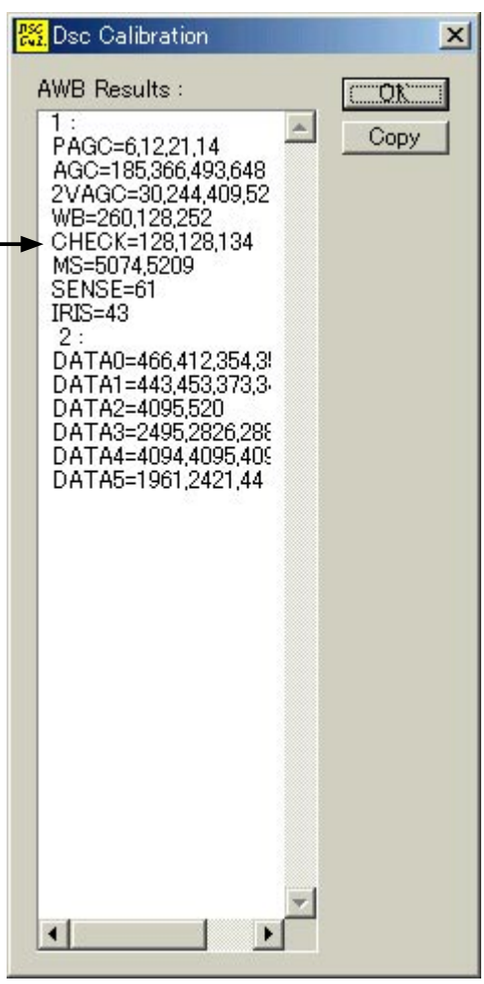
1. Double-click on the DscCalDi128.
2. Click the AWB, and click the Yes.
3. AWB adjustment value will appear on the screen.
   CHECK=128±2, 128±2, 130±30
4. Click the OK.



"Yes"



Adjustment value



12. Color Adjustment

[Note]

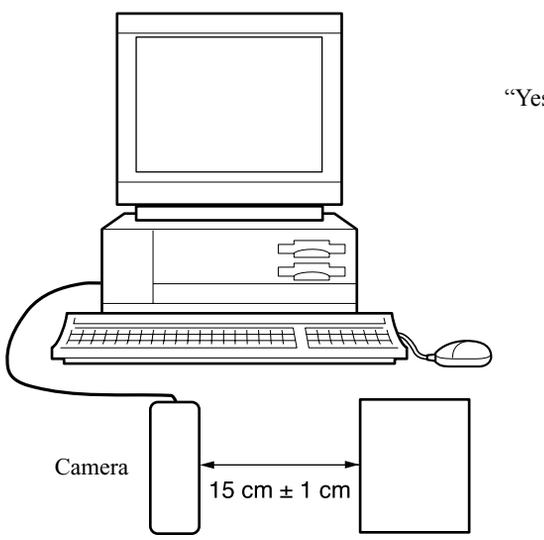
AWB adjustment should always be carried out first.

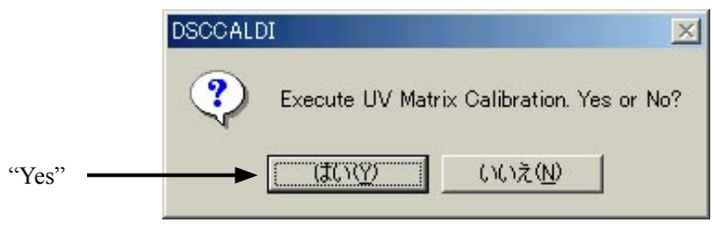
[Adjustment condition]

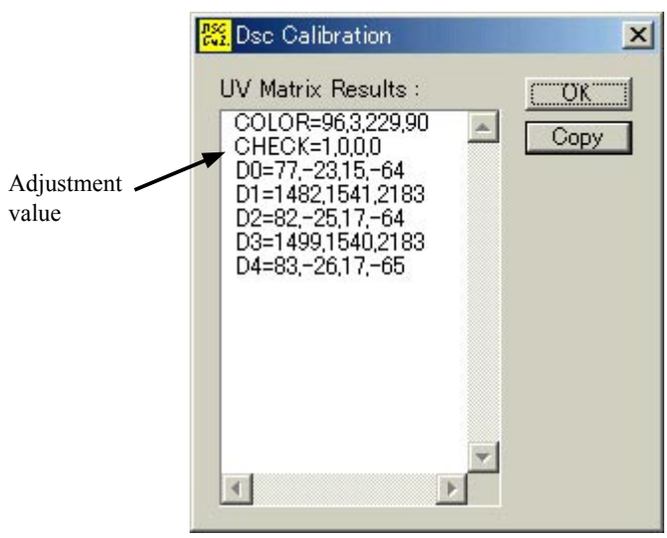
- Set the color adjustment chart to the color viewer.
  (Do not enter any light.)
- Set the color adjustment chart so that it becomes center of the screen.

[Adjustment method]

- Double-click on the DscCalDi128.
- Click the UV Matrix, and click the Yes.
- Color adjustment values will appear on the screen.
  CHECK=0±2, 0±2, 0±2, 0±2
- Click the OK.



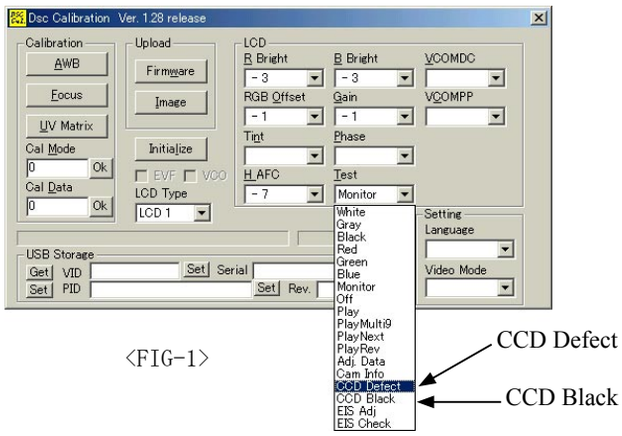




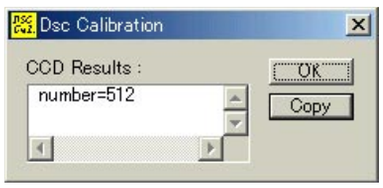
13. CCD White point Defect Detect Adjustment

[Adjustment method]

- Double-click on the DscCalDi128.
- Select the CCD Defect from Test menu of Calibration Soft and click the OK. Refer to FIG-1.
- After adjustment, An adjustment value will appear on the screen. Refer to FIG-2.



<FIG-1>



<FIG-2>

14. CCD Black point Defect Detect Adjustment

[Note]

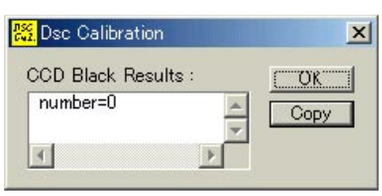
When setting the camera in place, set it to an angle so that nothing appears in any part of the color viewer except the white section. (Do not enter any light.)

[Adjustment method]

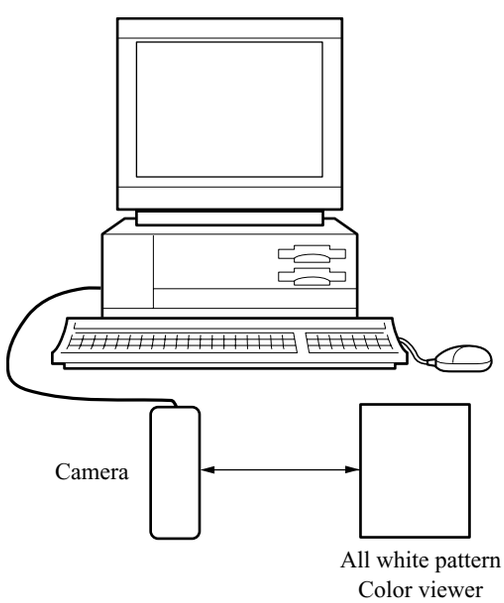
· Double-click on the DscCalDi128.

· Select the CCD Black from Test menu of Calibration Soft and click the OK. Refer to FIG-1.

· After adjustment, An adjustment value will appear on the screen. Refer to FIG-3.



<FIG-3>

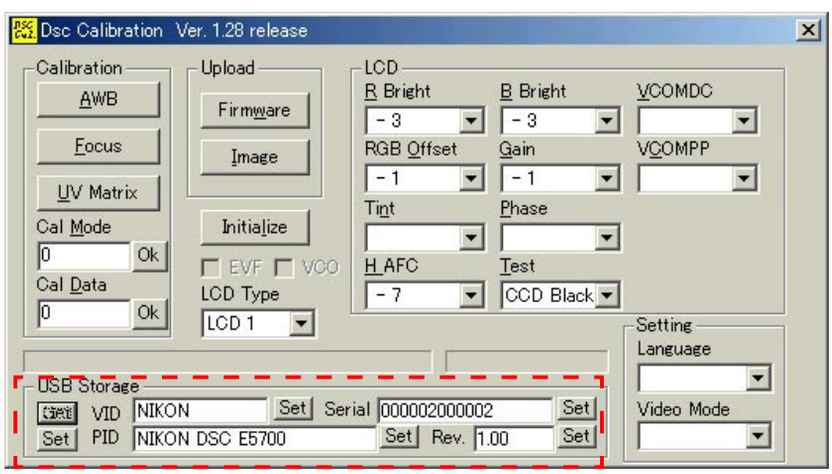


15. USB STORAGE INFORMATION REGISTRATION

USB storage data is important for when the camera is connected to a computer via a USB connection.
If there are any errors in the USB storage data, or if it has not been saved, the USB specification conditions will not be satisfied, so always check and save the USB storage data.

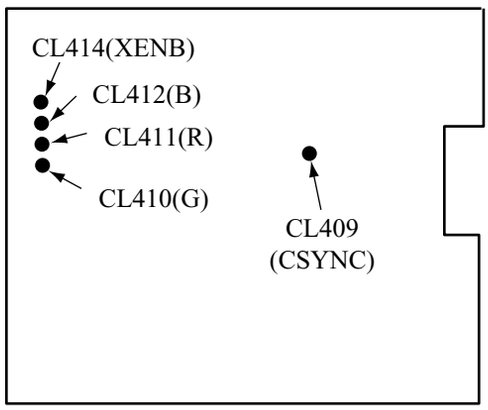
[Adjustment method]

1. Connect the camera to a computer. (Refer to 8. Connecting the camera to the computer on the page 12.)
2. Double-click on the DscCalDi128.
3. Click on the Get button in the USB storage window and check the USB storage data.
   VID: NIKON
   PID: NIKON DSC E5700
   Serial:
   Rev. : 1.00
4. Check the "Serial" in the above USB storage data. If the displayed value is different from the serial number printed on the base of the camera, enter the number on the base of the camera.
   Then click the Set button.
5. Next, check VID and Rev. entries in the USB storage data. If any of them are different from the values in 3. above, make the changes and then click the corresponding Set button.



16. LCD Panel Adjustment

[VF1 board (Side B)]



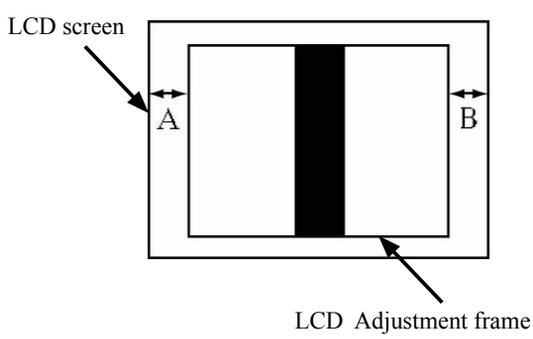
16-1. LCD H AFC Adjustment

[Preparation]

- POWER switch: ON

[Adjusting method]

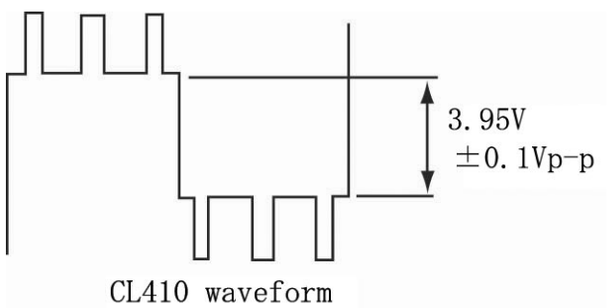
1. Double-click on the DscCalDi128.
2. Select 0 on the LCD H AFC.
3. While watching the LCD monitor, adjust H AFC so that the edge of the LCD adjustment frame are the same distance from the left and right edge of the LCD screen. (A = B)



16-2. LCD RGB Offset Adjustment

[Adjusting method]

1. Adjust LCD “RGB Offset” so that the amplitude of the CL410 waveform is 3.95 V ±0.1 Vp-p.



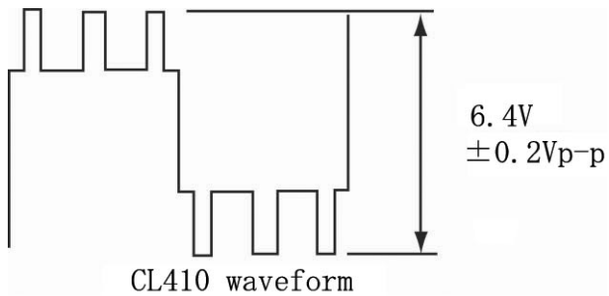
16-3. LCD Gain Adjustment

[Adjusting method]

1. Adjust LCD “Gain” so that the amplitude of the CL410 waveform is 6.4 V ± 0.2 Vp-p.

[Note]

16-2. LCD RGB Offset adjustment should always be carried out first.



CL410 waveform

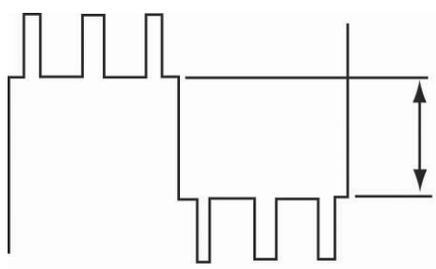
16-4. LCD Blue Brightness Adjustment

[Adjusting method]

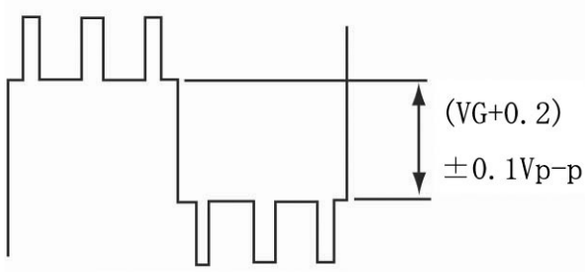
1. Adjust LCD “B Bright” so that the amplitude of the CL412 waveform is VG±0.1 Vp-p with respect to the CL410 (VG) waveform.

[Note]

16-2. LCD RGB Offset adjustment and
16-3. LCD Gain adjustment should always be carried out first



CL410 waveform



CL412 waveform

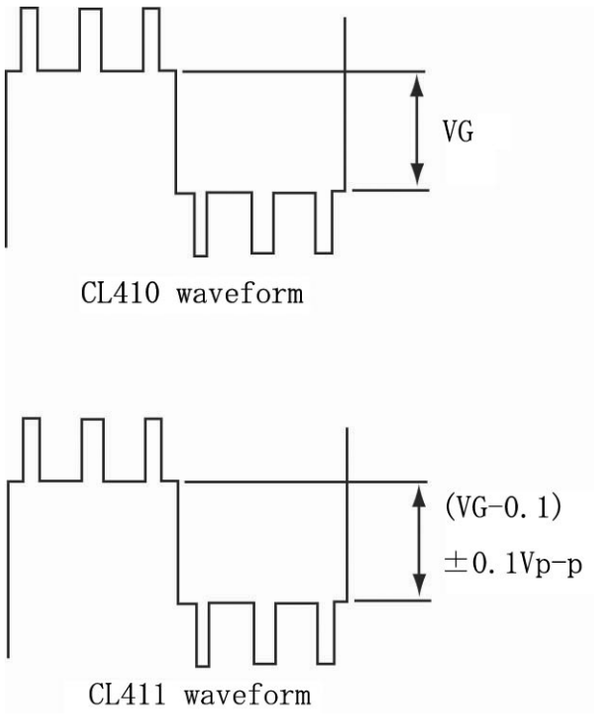
16-5. LCD Red Brightness Adjustment

[Adjusting method]

1. Adjust LCD “R Bright” so that the amplitude of the CL411 waveform is VG±0.1 Vp-p with respect to the CL410 (VG) waveform.

[Note]

16-2. LCD RGB Offset adjustment and
16-3. LCD Gain adjustment have done.



1. OUTLINE OF CIRCUIT DESCRIPTION

1-1. CA1 CIRCUIT DESCRIPTION

1. IC Configuration

IC903 (ICX282AK-B)	CCD imager
IC904, IC906 (CDX3400N)	V driver
IC905 (AD9849KST)	H driver, CDS, AGC, A/D converter

2. IC903 (CCD)

[Structure]

Interline type CCD image sensor

Optical size	Diagonal 11 mm (2/3 type)
Effective pixels	2588 (H) x 1960 (V)
Pixels in total	2658 (H) x 1970 (V)
Optical black	
Horizontal (H) direction:	Front 12 pixels, Rear 58 pixels
Vertical (V) direction:	Front 8 pixels, Rear 2 pixels

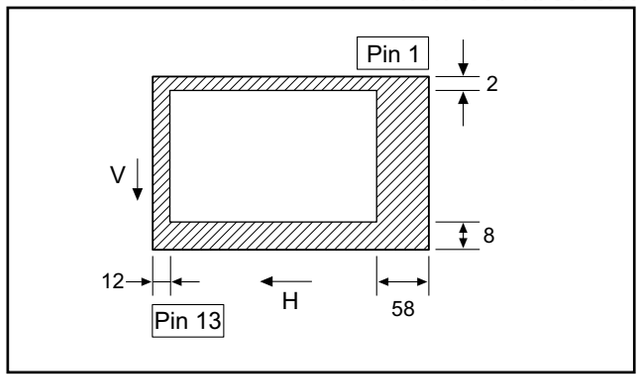


Fig. 1-1.Optical Black Location (Top View)

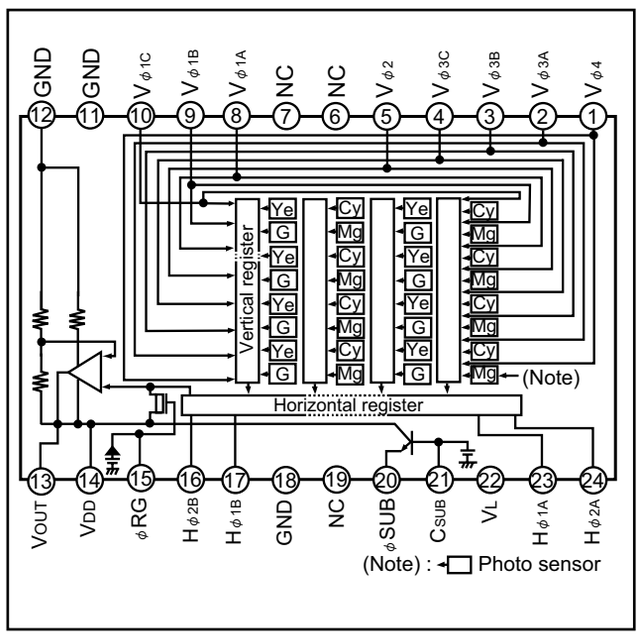


Fig. 1-2. CCD Block Diagram

Symbol	Symbol	Pin Description	Waveform	Voltage
1	V φ 4	Vertical register transfer clock		-7.5V, 0V
2, 3, 4	V φ 3A,V φ 3B, φ 3C	Vertical register transfer clock		-7.5V, 0V, 15V
5	V φ 2	Vertical register transfer clock		-7.5V, 0V
6, 7, 19	NC			
8, 9, 10	V φ 1A,V φ 1B, V φ 1C	Vertical register transfer clock		-7.5V, 0V, 15V
11, 12, 18	GND	GND	GND	0V
13	VOUT	Signal output		Approx. 10V
14	VDD	Circuit power	DC	15V
15	φ RG	Reset gate clock		12.5V, 16V
16, 24	H φ 2B,H φ 2A	Horizontal register transfer clock		0V, 3.3V
17, 23	H φ 1B,H φ 1A	Horizontal register transfer clock		0V, 3.3V
20	φ SUB	Substrate clock	DC	Approx. 8V
21	CSUB	Substrate bias	DC	Approx. 8V
22	VL	Protection transistor bias	DC	-7.5V

Table 1-1. CCD Pin Description

---- When sensor read-out

3. IC904 and IC906 (V Driver)

IC904 and IC906 are vertical clock driver for image sensor. The ternary pulse of V ϕ 1 (A, B and C) and V ϕ 3 (A, B and C) for CCD which are output from ASIC (IC102) are generated to add the sensor reading clock (XSG**) and the vertical transfer clock (XV*). V ϕ 2, V ϕ 4 and the two pulse of ϕ SUB for CCD which are output from ASIC (IC102) are generated from vertical transfer clock (XV*).

4. IC905 (H Driver, CDS, AGC and A/D converter)

IC905 contains the functions of H driver, CDS, AGC and A/D converter. As horizontal clock driver for CCD image sensor, H ϕ 1 (A and B) and H ϕ 2 (A and B) are generated inside, and output to CCD.

The video signal which is output from the CCD is input to pins (29) of IC905. There are sample hold blocks inside IC905 generated from the SHP and SHD pulses, and it is here that CDS (correlated double sampling) is carried out.

After passing through the CDS circuit, the signal passes through the AGC amplifier (PGA: Programmable Gain Amplifier). It is A/D converted internally into a 12-bit signal, and is then input to ASIC (IC102). The gain of the AGC amplifier is controlled by pin (36)-(38) serial signal which is output from ASIC (IC102).

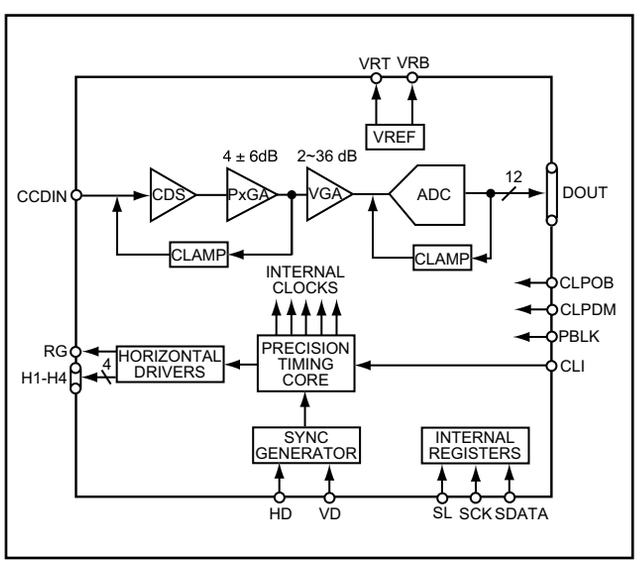


Fig. 1-3. IC902 Block Diagram

5. Lens drive block

5-1. Focus drive

The focus stepping motor drive signals (FM RESETB, FM CW, FM CLK and FM OEB) which are output from ASIC expansion port (IC108) are used to drive micro step by the motor driver (IC951). Detection of the standard focusing positions is carried out by means of the photointerruptor (FPI) inside the lens block.

5-2. Zoom drive

The DC motor drive signals (ZIN1 and ZIN2) which are output from 8-bit microprocessor (IC301) are used to drive by the motor driver (IC953). Counting and detection of the standard zoom positions is carried out by means of photoreflector (ZPI) inside the lens block.

5-3. Iris drive

The iris stepping motor drive signals (IIN1, IIN2, IIN3 and IIN4) which are output from the ASIC expansion port (IC106) are converted into drive by the motor drive (IC952), and are then used to drive the iris steps.

5-4. Shutter drive

The two shutter motor drive signals (SIN1, SIN2) which are output from the ASIC expansion port (IC106) are converted into drive pulses by the motor drive (IC952), and the mecha shutter is opened and closed by regular current drive.

1-2. CP1 & VF1 CIRCUIT DESCRIPTION

1. Circuit Description

1-1. Digital clamp

The optical black section of the CCD extracts averaged values from the subsequent data to make the black level of the CCD output data uniform for each line. The optical black section of the CCD averaged value for each line is taken as the sum of the value for the previous line multiplied by the coefficient k and the value for the current line multiplied by the coefficient 1-k.

1-2. Signal processor

1. γcorrection circuit

This circuit performs (gamma) correction in order to maintain a linear relationship between the light input to the camera and the light output from the picture screen.

2. Color generation circuit

This circuit converts the CCD data into RGB signals.

3. Matrix circuit

This circuit generates the Y signals, R-Y signals and B-Y signals from the RGB signals.

4. Horizontal and vertical aperture circuit

This circuit is used gemerate the aperture signal.

1-3. AE/AWB and AF computing circuit

The AE/AWB carries out computation based on a 64-segment screen, and the AF carries out computations based on a 6-segment screen.

1-4. SDRAM controller

This circuit outputs address, RAS, CAS and AS data for controlling the SDRAM. It also refreshes the SDRAM.

1-5. Communication control

1. SIO

This is the interface for the 8-bit microprocessor.

2. PIO/PWM/SIO for LCD

8-bit parallel input and output makes it possible to switch between individual input/output and PWM input/output.

1-6. TG/SG

Timing generated for 2 million/3 million/4 million/5 million pixels CCD control.

1-7. Digital encorder

It generates chroma signal from color difference signal.

1-8. JPEG encorder and decorder

It is compressed and elongated the data by JPEG system.

2. Outline of Operation

When the shutter opens, the reset signals (ASIC (IC102) and CPU (IC101)) and the serial signals (“take a picture” commands) from the 8-bit microprocessor are input and operation starts. When the TG/SG drives the CCD, picture data passes through the A/D and CDS, and is then input to the ASIC as 10-bit data. The AF, AE, AWB, shutter, and AGC value are computed from this data, and three exposures are made to obtain the optimum picture. The data which has already been stored in the SDRAM is read by the CPU and color generation is carried out. Each pixel is interpolated from the surrounding data as being either Ye, Cy, Mg and Gr primary color data to produce R, G and B data. At this time, correction of the lens distortion which is a characteristic of wide-angle lenses is carried out. After AWB and γ processing are carried out, a matrix is generated and aperture correction is carried out for the Y signal, and the data is then compressed by the JPEG method by (JPEG) and is then written to card memory (compact flash).

When the data is to be output to an external device, it is taken data from the memory and output via the UART. When played back on the LCD and monitor, data is transferred from memery to the SDRAM, and the data elongated by JPEG decorder is displayed over the SDRAM display area.

3. LCD and EVF Block

LCD Block is in the VF1 board, and it is constructed by LCD driver (IC171) and around circuits.

The video signal (Y color difference signal) from the ASIC are converted into RGB signals by the LCD driver, and these RGB signals and the control signal which is output by the LCD driver are used to drive the LCD panel. The RGB signals are 1H transposed so that no DC component is present in the LCD element, and the two horizontal shift register clocks drive the horizontal shift registers inside the LCD panel so that the 1H transposed RGB signals are applied to the LCD panel. Because the LCD closes more as the difference in potential between the COM (common polar voltage) and the R, G and B signals becomes greater, the display becomes darker; if the difference in potential is smaller, the element opens and the LCD become brighter.

Also, EVF Block is in the CP1 board, and it is constructed by EVF driver (IC801) and around circuits. The operation is the same as the LCD block.

1-3. PW1 POWER CIRCUIT DESCRIPTION

1. Power Circuit Outline

The switching regulator consists of a DC-DC converter, and it uses a digital power supply, CCD power supply, LCD panel power supply, LED backlight power supply and EVF backlight power supply. The controller is used FA7708R and TK11840L.

1-1. Switching Regulator Controller FA7708R (IC501)

This is the basic circuit which is necessary for controlling the power supply for a PWM-type switching regulator, and is provided with five built-in channels.
CH1: CCD power supply circuit
CH2: digital 1.85 V power supply circuit
CH3: digital 3.35 V power supply circuit
CH4: LCD panel power supply circuit
CH5: LED backlight circuit for LCD

1. Short-circuit Protection Circuit

If output is short-circuited for the length of time determined by the condenser which is connected to Pin (37) of IC501, all output is turned off. The power is restored by ON and OFF.

2. Digital 3.35 V Power Supply Circuit

Consists of a step-down type switching regulator, and outputs 3.35 V ± 2.5 %.

3. Digital 1.85 V Power Supply Circuit

Consists of a step-down type switching regulator, and outputs 1.85 V ± 5 %.

4. CCD Power Circuit and Digital 5 V Power Supply Circuit

15.0 V ± 0.5 V, –7.5 V ±0.5 V and 5.02 V ± 0.1 V are output by flyback transformer (T5001). The voltage is adjusted to 5.02 V. Digital 5 V and CCD 5.02 V are shared.

5. LCD Panel Power Supply Circuit

Consists of a step-up type switching regulator, and outputs 12.3 V ± 2.5 %.

6. LED Backlight Power Supply Circuit (for LCD)

Consists of a step-up switching regulator, and carries out constant-current control for the LEDs.

1-2. Switching Regulator Controller K11840L (IC503)

This is the LED backlight circuit for EVF, and is provided with one built-in channel.

1. Short-circuit Protection Circuit

If output is short-circuited for the length of time determined by the condenser which is connected to Pin (2) of IC503, all output is turned off. The power is restored by ON and OFF.

2. LED Backlight Power Supply Circuit (for EVF)

Consists of a step-up switching regulator, and carries out constant-current control for the LEDs.

2. AC Adaptor and Battery Distinction

Differentiated by the voltage at pin 56 of the 8-bit microprocessor. When an AC adaptor is being used, transistor Q3010 on the SY1 circuit board is turned on, so that pin 56 becomes low. When a battery is being used, D3016 stops the current from flowing, so that the transistor turns off and the voltage at pin 56 becomes high.

3. Battery Charging Protection Circuit

A FET (UPA1915TE) switch is inserted into the (+) end of the battery harness so that charging current does not flow to the battery by mistake when a battery and an AC adaptor are being used together. When a voltage is being generated by the AC adapter, Q5003 is turned off, so that the battery circuit is isolated. If there is no voltage coming from the AC adaptor, Q5003 turns on and power is supplied from the battery.

1-4. SY-A CIRCUIT DESCRIPTION

1. Configuration and Functions

For the overall configuration of the SY-A block, refer to the block diagram. The configuration of the SY-A block centers around a 8-bit microprocessor (IC301).

The 8-bit microprocessor handles the following functions.

1. Operation key input, 2. Mode LCD display, 3. Clock control, 4. Power ON/OFF, 5. Storobe charge control, 6. Signal output for lens control of zoom, focus and so on.

Pin	Signal	I/O	Outline	
1	RDY	I	A/D input (strobo charge voltage detection)	
2	TEMP	I	A/D input (lens temperature sensor)	
3	POP OUT	O	Strobo pop up	H : ON
4~7	$\overline{\text{SCAN IN 6, 1~3}}$	I	Key matrix input	
8	AVDD	-	Analog power input terminal	
9	AVREF	I	Analog standard voltage input terminal	
10	EVF_ON	O	EVF circuit	H : ON
11	EVF_BL	O	EVF backlight	H : ON
12	VSS	-	GND	
13	EL_ON	O	Mode LCD backlight light	H : ON
14	LCD ON	O	DC/DC converter (LCD system) ON/OFF signal	H : ON
15	PWM	O	Dimmer D/A PWM output (14-bit PWM output)	
16	$\overline{\text{EXTSB DET}}$	I	External strobo connection detection terminal	L : Detection
17	COMREQ	I	Command request signal	
18	POP SW	I	Pop up detection	L : Pop up
19	NC	-	-	
20	ZRESET	I	Zoom PI reset input	
21	BUZZER	O	Beep output	
22	CHG ON	O	Strobe charge control circuit (OSC)	H : ON
23, 26	COM 0~3	O	LCD common output 0~3	
27	BIAS	-	LCD drive power supply (connect to VLC0 terminal)	
28, 30	VLC 0~2	-	LCD power input terminal (connect to outside resister connection)	
31	VSS	-	GND	
32~55	S1~S24	O	LCD segment output 1~24	
56	DCINCHK	I	Outside DC power detection	L : DC jack
57	$\overline{\text{PICTL}}$	O	Photo interaptor ON/OFF control	L : ON
58	LCD BL	O	LCD backlight ON/OFF	H : ON
59	SCAN IN5	O	Key matrix input	
60	SCAN OUT 0	O	Key matrix output	
51	ZPULSE 2	I	Zoom motor drive pulse count	
62~63	$\overline{\text{ZM IN2~1}}$	O	Zoom motor drive pulse count 2~1	
64	$\overline{\text{WAKE UP}}$	O	SPARC wake up terminal	
65	$\overline{\text{ADVREF ON}}$	O	AD VREF ON/OFF signal	L : ON
66	FSW	O	F range change	
67	CMD IN1	I	Command dial input 1	
68	BKUPCTL	O	Back up battery charge control	L : Charge
69	SCAN IN0	I	Key matrix input	
70	PA ON	O	DC/DC converter (analog) ON/OFF signal	H : ON
71	P ON	O	DC/DC converter (digital) ON/OFF signal	H : ON
72	SELF LED	O	Red-eye reduction, self, AF assistance luminous drive	H : ON
73	SP_MUTE	O	Audio mute signal	H : ON
74	$\overline{\text{CARD}}$	I	Card detection (L=card)	H : Card
75	SI	I	Serial data input (← ASIC)	
76	SO	O	Serial data output (→ ASIC)	

See next page →

Pin	Signal	I/O	Outline
77	SCK	O	Serial clock output (→ ASIC)
78	IC	-	Internal connection (connect to VSS terminal directly)
79	XOUT	O	Main clock oscillation terminal
80	XIN	I	Main clock oscillation terminal (3 MHz)
81	VDD	-	VDD
82	XCIN	I	Clock oscillation terminal (32.768 kHz)
83	XCOUT	O	Clock oscillation terminal
84	$\overline{\text{RESET}}$	I	Reset input
85	$\overline{\text{BAT OFF}}$	I	Battery OFF detection signal L : No battery
86	$\overline{\text{RXD}}$	I	Host wake-up input terminal
87	$\overline{\text{SREQ}}$	I	Serial communication request signal
88	ZPULSE 1	I	Zoom motor drive pulse count (interruption)
89	$\overline{\text{USB CONNECT}}$	I	USB power connection detection L : USB power detection
90	CMD IN2	I	Command dial input 2
91	$\overline{\text{MAIN RESET}}$	O	SPARC reset signal L : Reset
92~95	$\overline{\text{SCAN OUT 1~4}}$	O	Key matrix output
96	$\overline{\text{ASIC TEST}}$	O	ASIC control signal L : Reset
97	$\overline{\text{ASIC RESET}}$	O	ASIC reset signal L : Reset
98	SCAN IN 4	I	Key matrix input
99	AVSS	-	Analog GND input terminal
100	BATTERY	I	A/D input (battery check)

Table 4-1. 8-bit Microprocessor Port Specification

2. Internal Communication Bus

The SY-A block carries out overall control of camera operation by detecting the input from the keyboard and the condition of the camera circuits. The 8-bit microprocessor reads the signals from each sensor element as input data and outputs this data to the camera circuits (ASIC) or to the LCD display device as operation mode setting data. Fig. 4-1 shows the internal communication between the 8-bit microprocessor, ASIC and SPARC lite circuits.

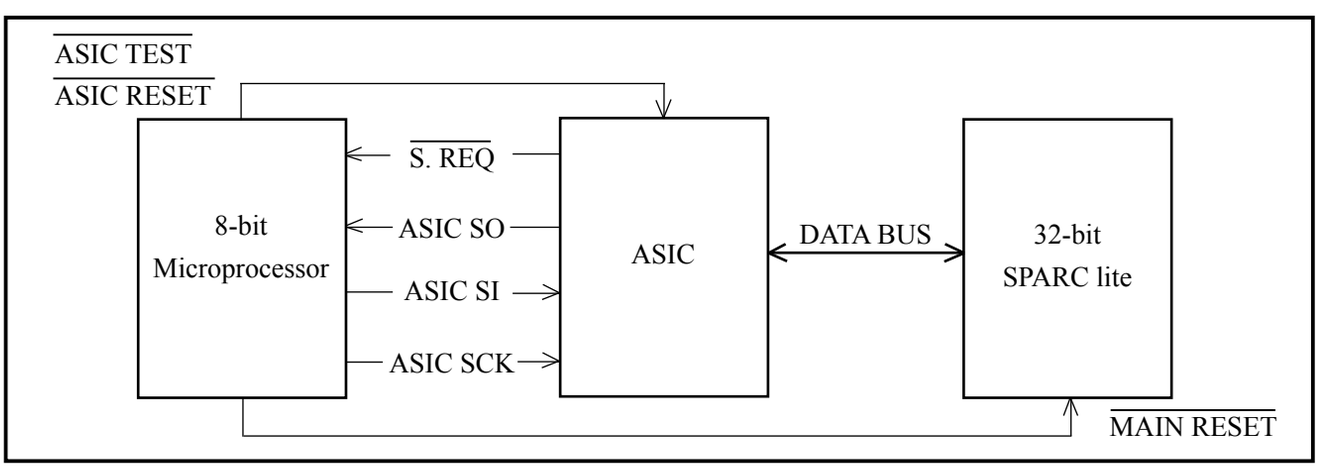


Fig. 4-1 Internal Bus Communication System

3. Key Operaiton

For details of the key operation, refer to the instruction manual.

SCAN IN / SCAN OUT	0	1	2	3	4	5	6
0	S2	S1	MODE	+/-	PW ON	EL ON	FUNC
1	SIZE	AF-L/AE-L	AFM	SBS	TEST	EXT-S2	EXT_S1
2	←	→	↑	↓	LCD/EVF	WIDE	TELE
3	-	DELETE	DISP	LCD conversion	LCD OPEN	BAT DET	EXT BAT
4	AV JACK	-	DIN CONNECT	QICK	MENU	PLAY	REC

Table 4-2. Key Operation

4. Power Supply Control

The 8-bit microprocessor controls the power supply for the overall system.

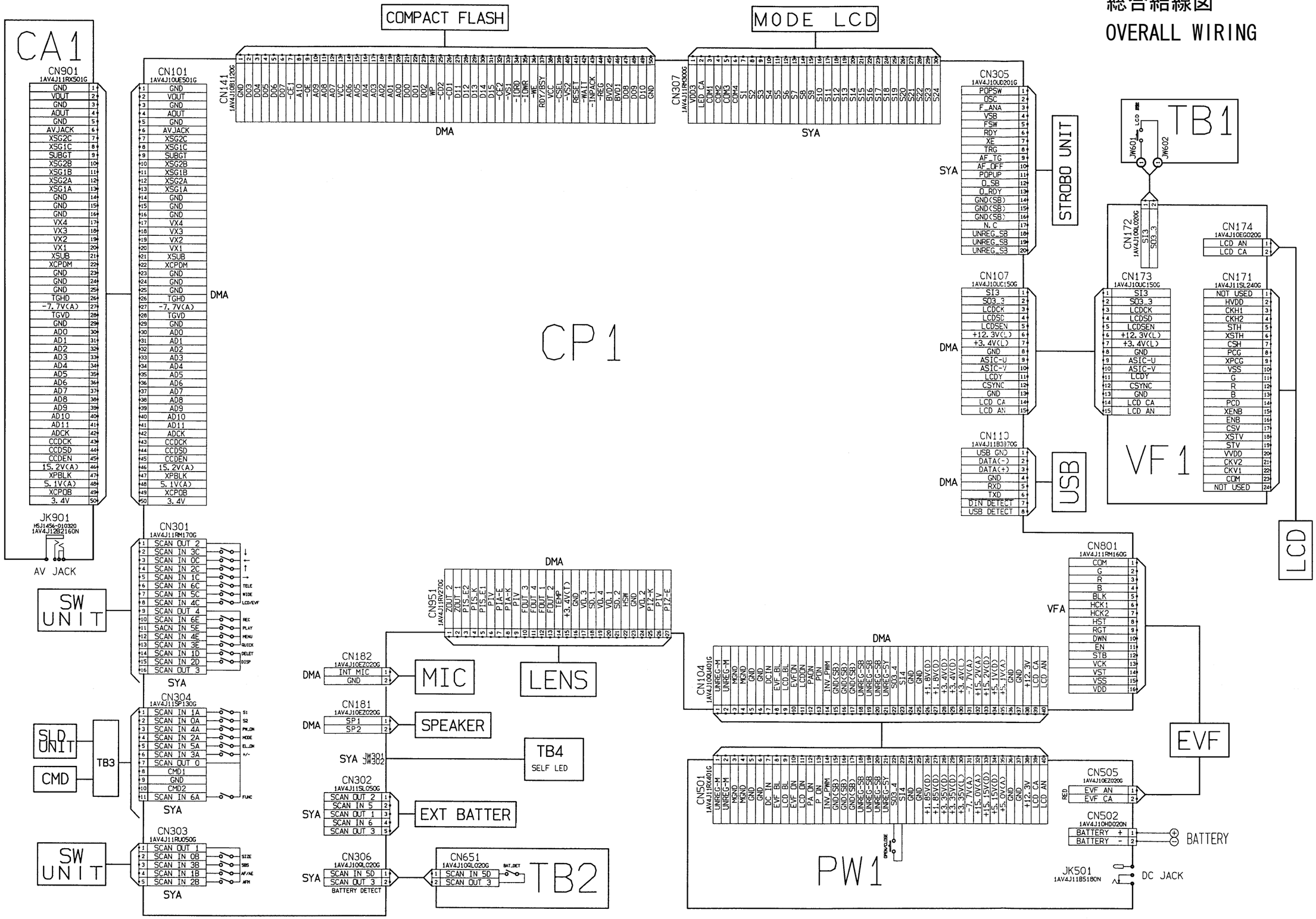
The following is a description of how the power supply is turned on and off. When the battery is attached, a regulated 3.2 V voltage is normally input to the 8-bit microprocessor (IC301) by IC302, so that clock counting and key scanning is carried out even when the power switch is turned off, so that the camera can start up again. When the battery is removed, the 8-bit microprocessor opererates in clock backup mode using the backup lithum ion battery. At this time, the 8-bit microprocessor only carries out clock counting, and waits in standby for the battery to be attached again. When a switch is operated, the 8-bit microprocessor supplies power to the system as required.

The 8-bit microprocessor first sets both the $\overline{\text{P (A) ON}}$ signal at pin (70) and the $\overline{\text{P ON}}$ signal at pin (71) to High, and then turns on the DC/DC converter. After this, the ASIC RESET at pin (97) and the MAIN RESET at pin (91) set to High, so that the ASIC and the SPARC lite are set to the active condition. If the LCD monitor is on, the $\overline{\text{LCD ON}}$ signal at pin (14) and the LCD BL signal at pin (58) set to High, and the DC/DC converter for the LCD monitor is turned on. If EVF is lighting, the EVF ON signal at pin (10) and EVF BL signal at pin (11) set to High. LCD monitor and EVF are not turned on simultaneously. If a video jack is inserted, LCD and EVF turn off. Once SPARC lite processing is completed, the ASIC and the SPARC lite return to the reset condition, all DC/DC converters are turned off and the power supply to the whole system is halted.

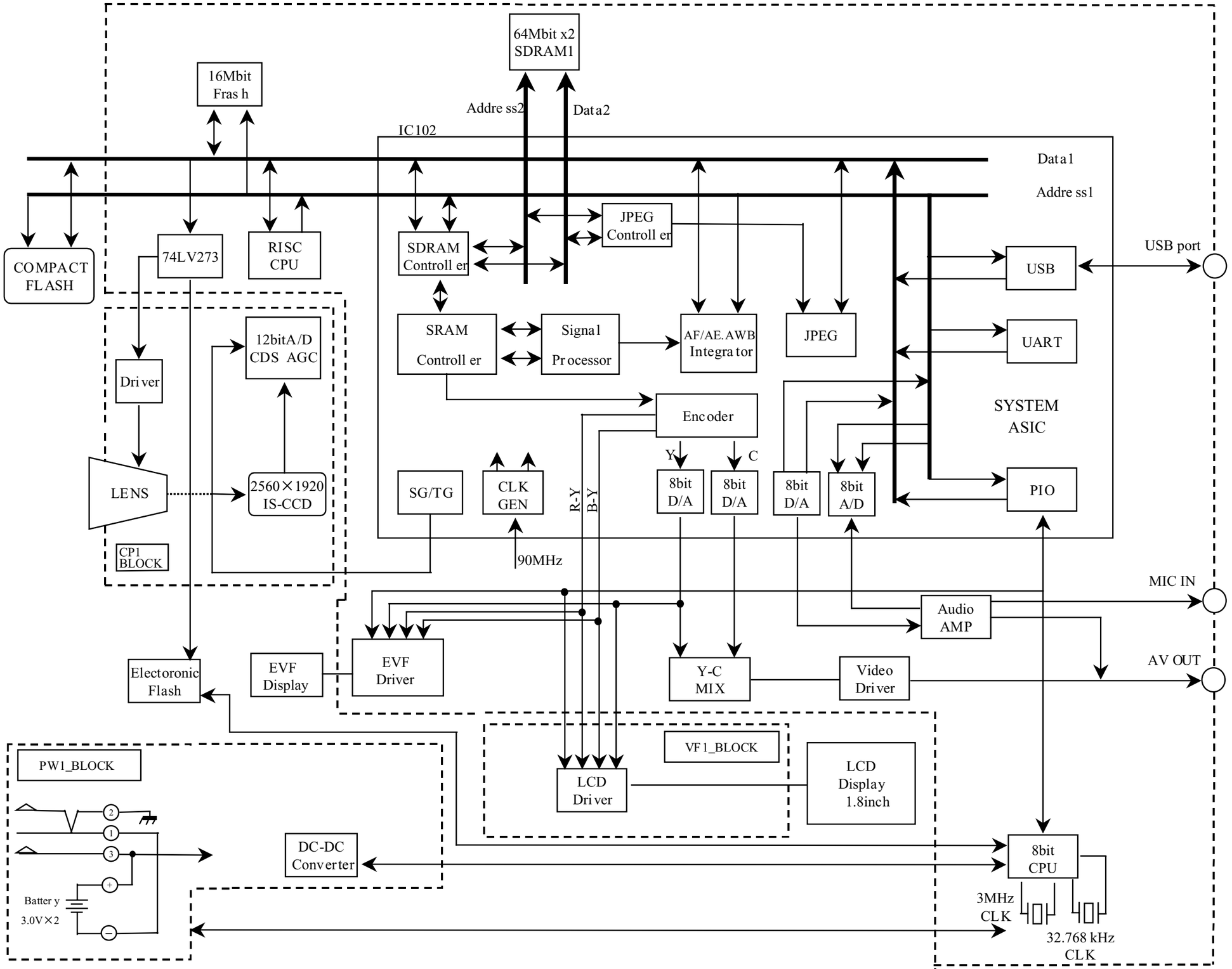
			SPARC Lite	Memory	CCD	8 bit CPU	MODE LCD	LCD MONITOR	EVF MONITOR
MODE	Power voltage		3.3V 1.8V	3.3V	15.1V(A) -7.7V(A) 5.1V(A)	3.2V (ALWAYS)	3.2V	12V(L)	12V(E)
OFF SLEEP			OFF	OFF	OFF	32KHz	OFF	OFF	OFF
PLAY	Display mode	LCD	ON	ON	OFF	3MHz 32kHz	ON	ON	OFF
		EVF	ON	ON	OFF	3MHz 32kHz	ON	OFF	ON
		Video output	ON	ON	OFF	3MHz 32kHz	ON	OFF	OFF
REC	Display mode	LCD	ON	ON	ON	3MHz 32kHz	ON	ON	OFF
		EVF	ON	ON	ON	3MHz 32kHz	ON	OFF	ON
		Video output	ON	ON	ON	3MHz 32kHz	ON	OFF	OFF

Table 4-3. Power

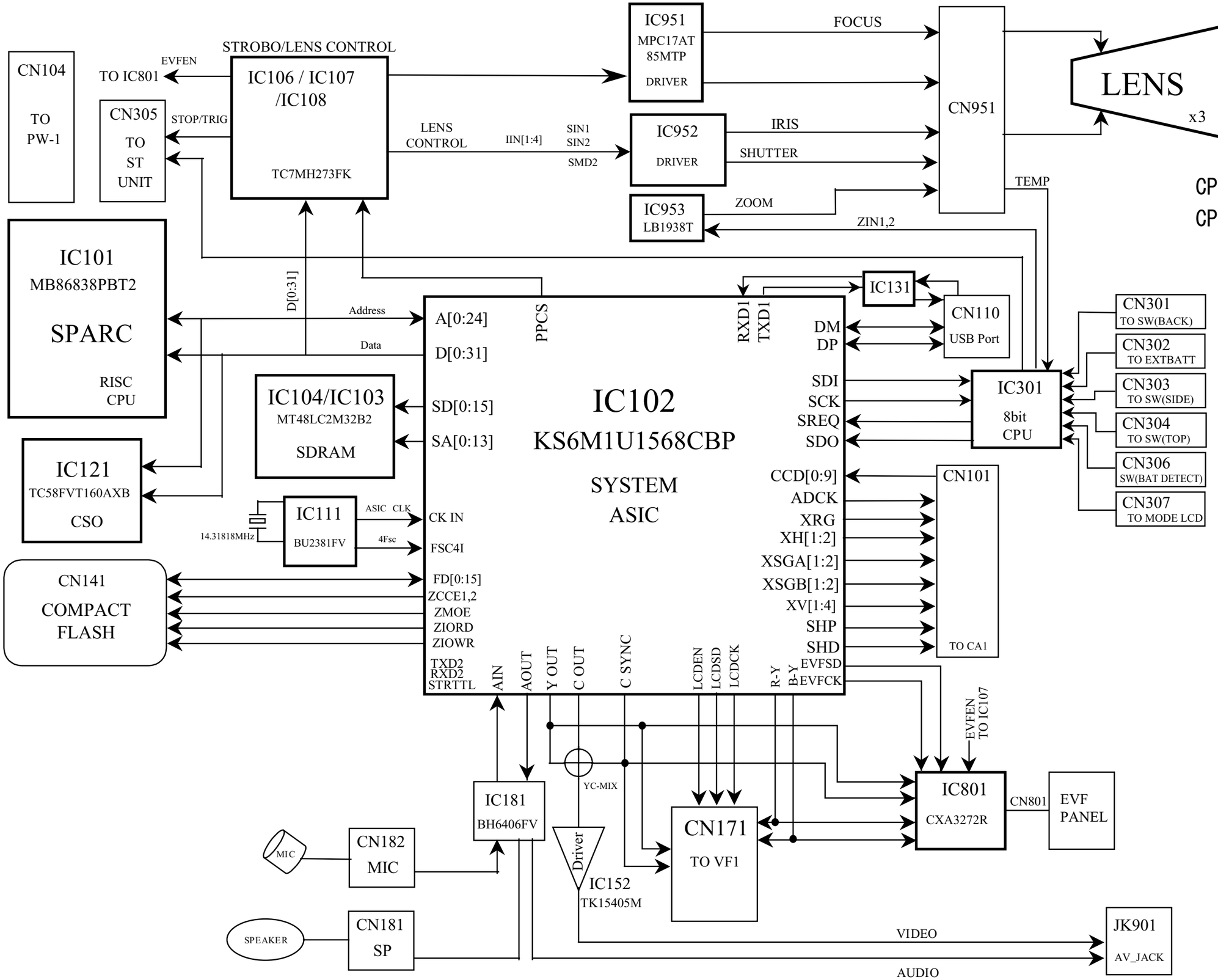
総合結線図
OVERALL WIRING



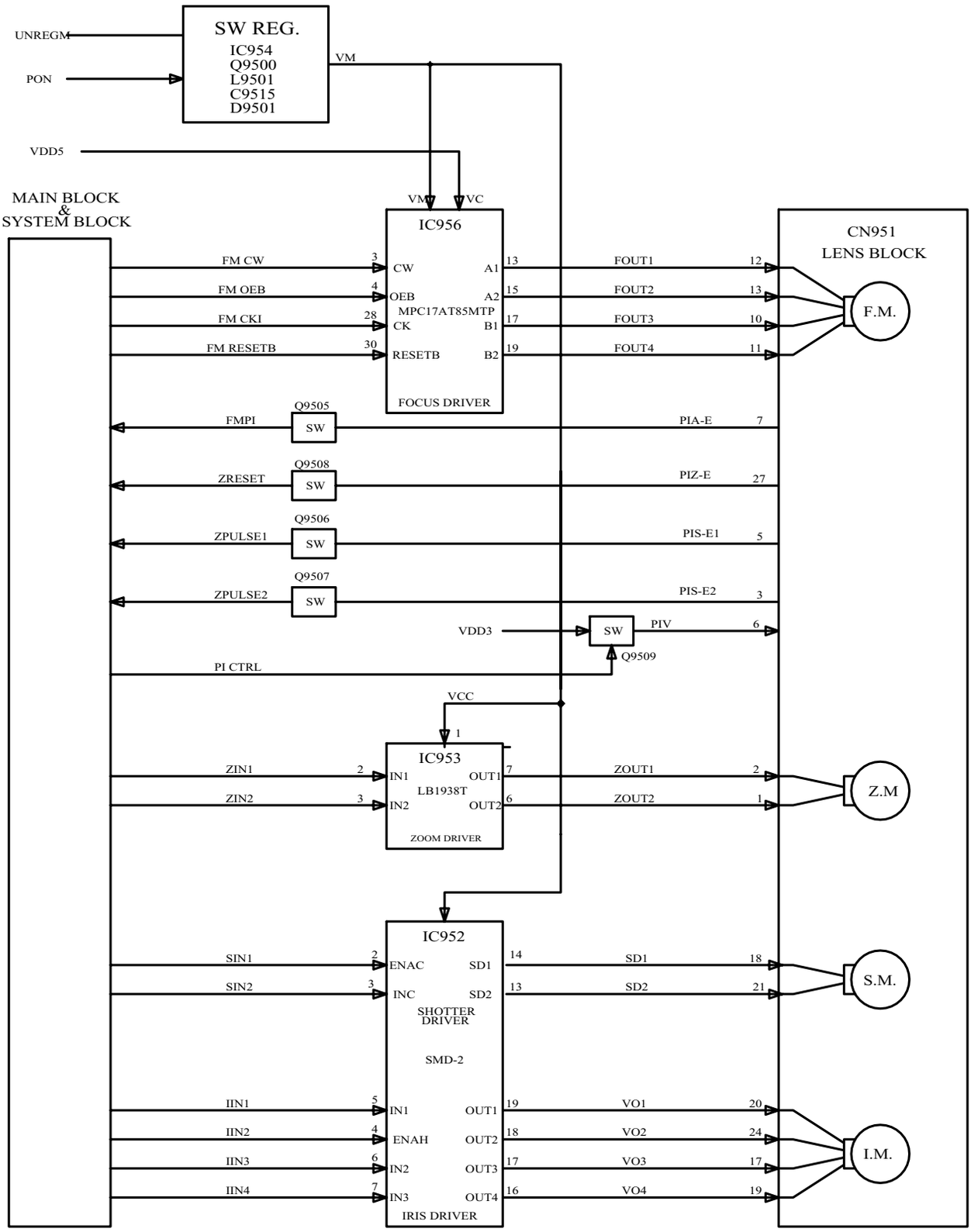
総合ブロック図
OVERALL BLOCK DIAGRAM



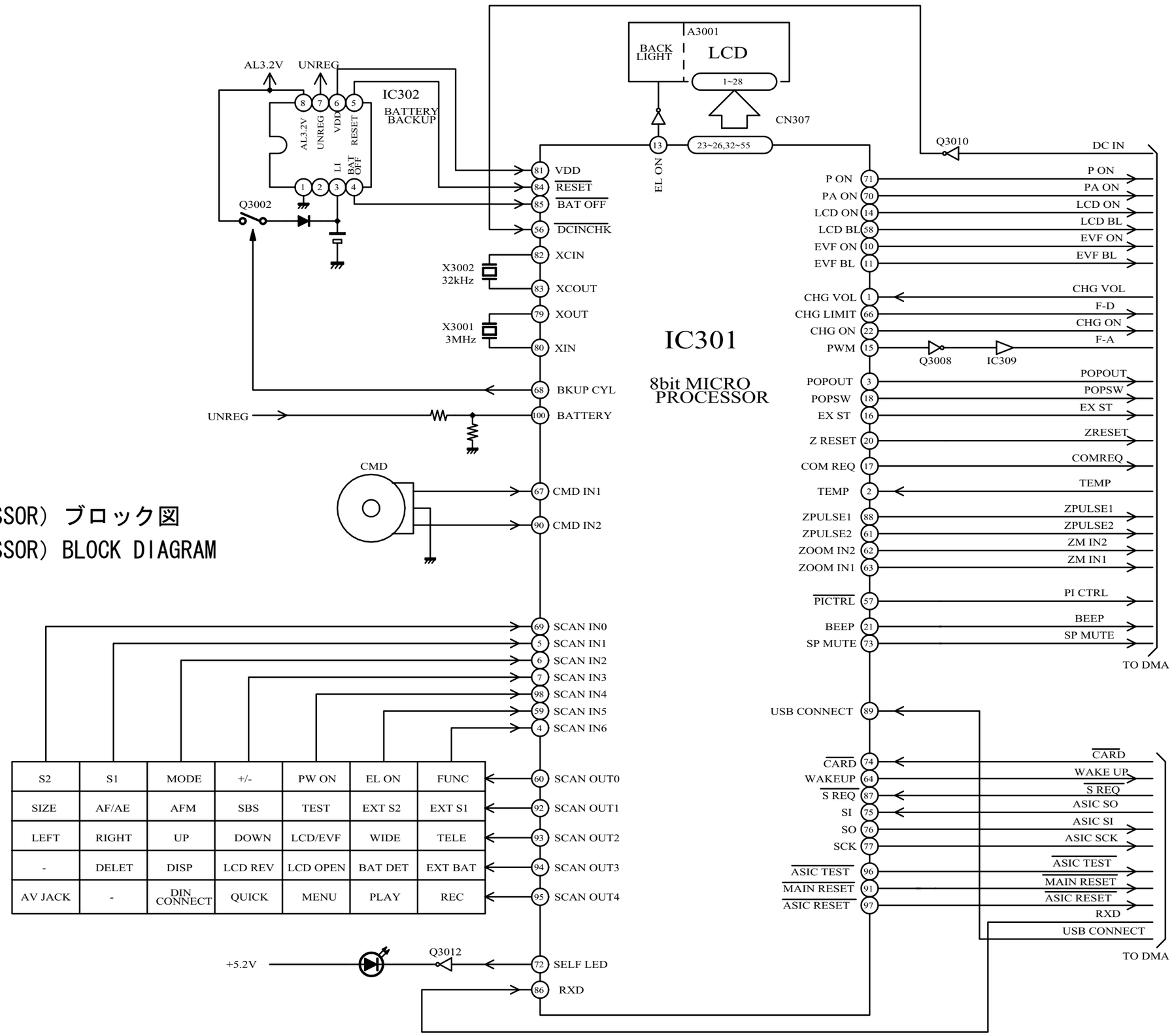
CP-1 ブロック図
CP-1 BLOCK DIAGRAM



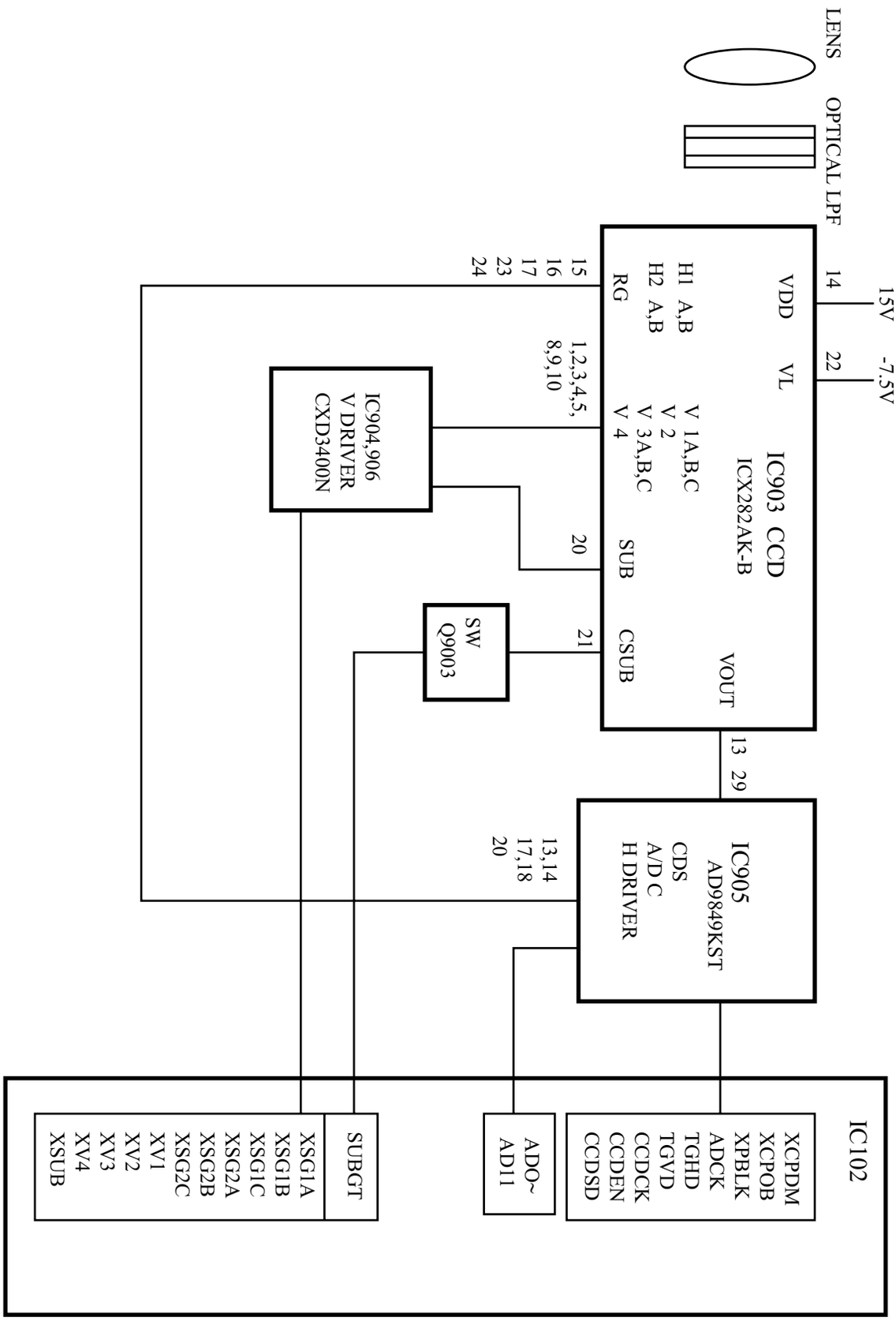
CP-1（レンズ部）ブロック図
CP-1 (LENS) BLOCK DIAGRAM



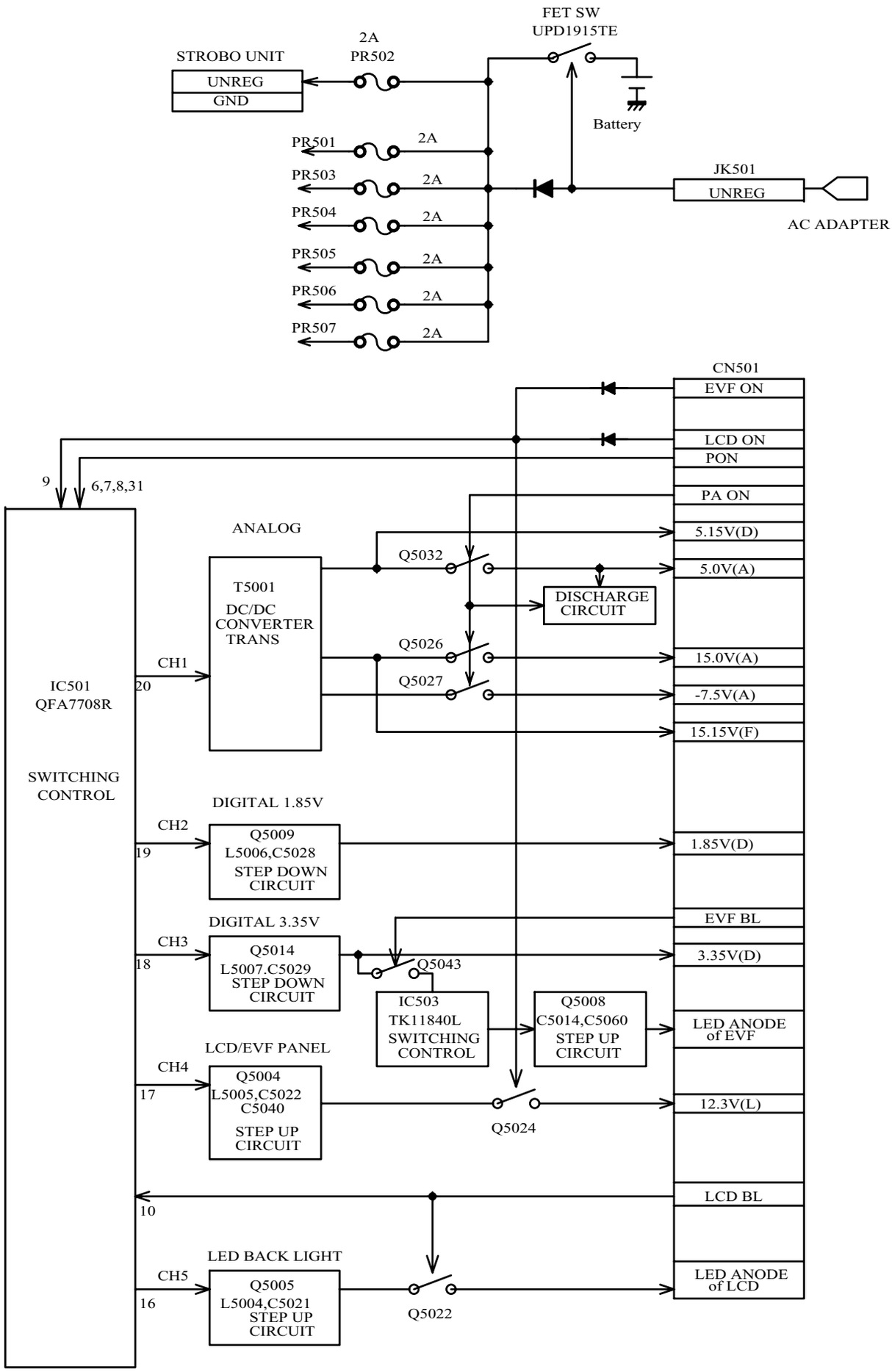
CP-1 (8bit MICRO PROCESSOR) ブロック図
CP-1 (8bit MICRO PROCESSOR) BLOCK DIAGRAM



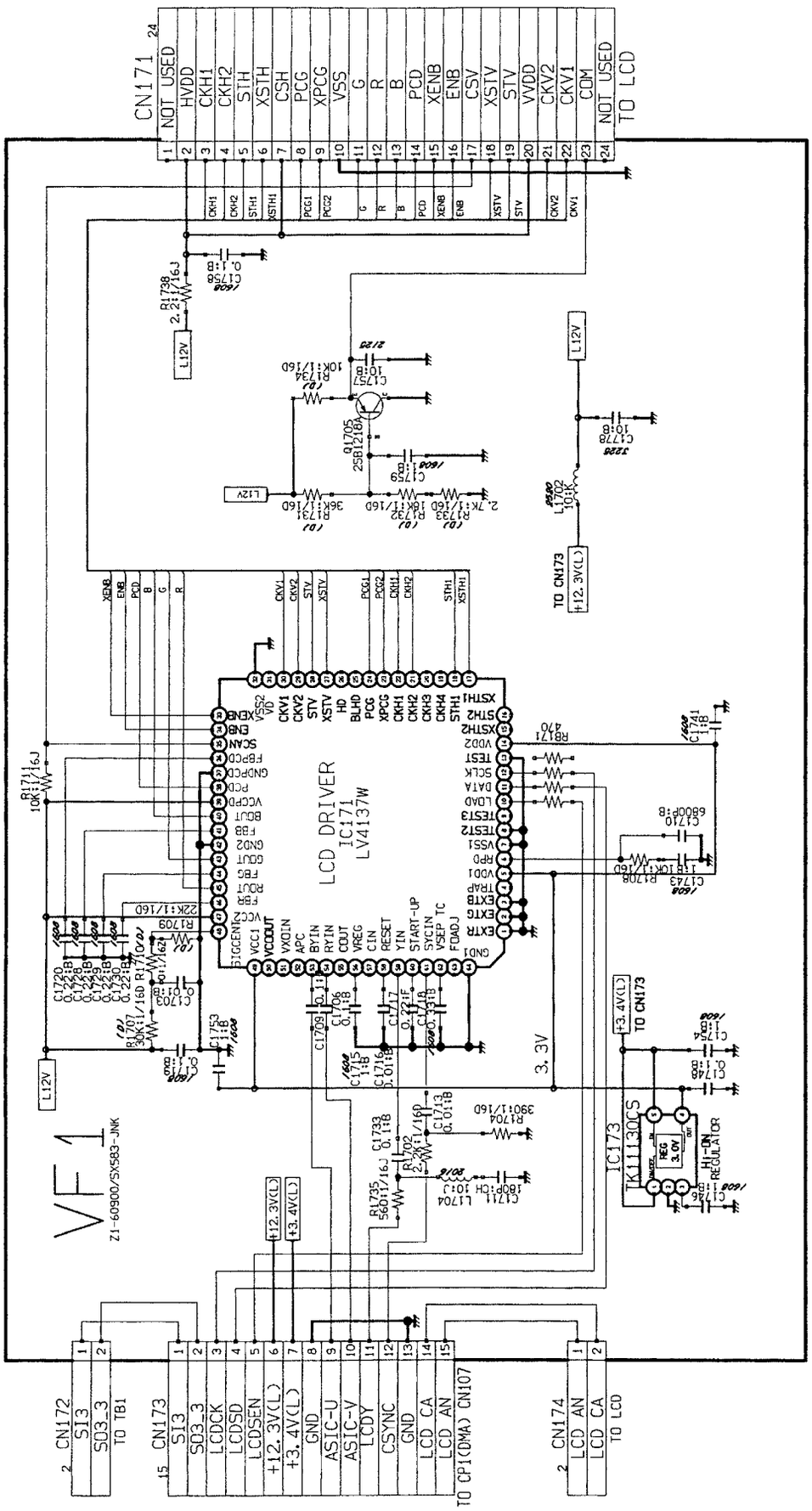
CA-1 ブロック図
CA-1 BLOCK DIAGRAM



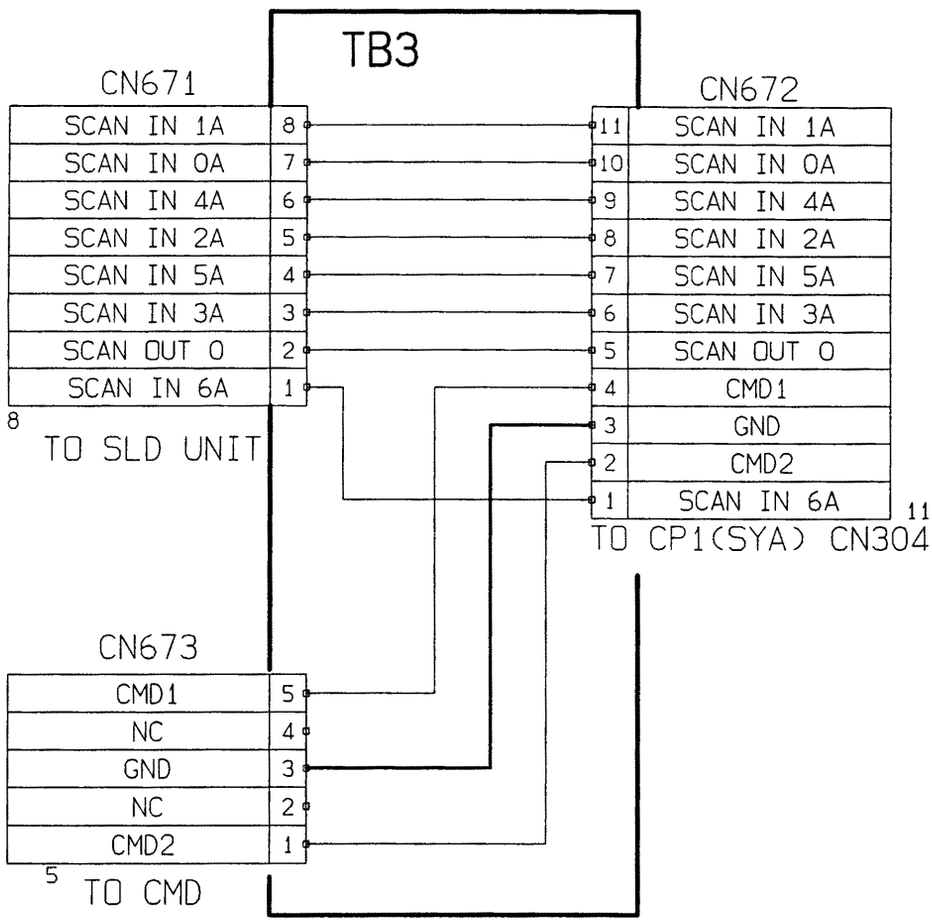
PW-1 ブロック図
PW-1 BLOCK DIAGRAM



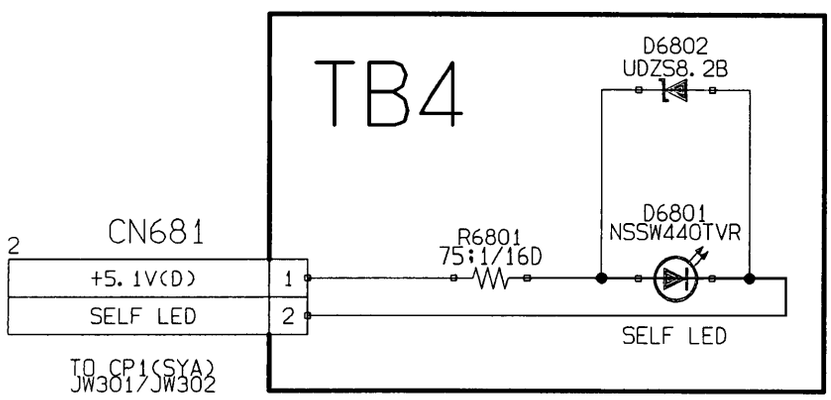
VF-1 回路図
VF-1 CIRCUIT DIAGRAM



TB-3 ブロック図
TB-3 BLOCK DIAGRAM



TB-4 ブロック図
TB-4 BLOCK DIAGRAM



The contents of inspection standards and tools for E5700

[1] Inspection standards ..... R1 to R5
[2] Tools ..... T1 to T2

Conditions to be set and prepared for inspections

1. Physical stance to measure :
   On the applicable product, its lens shall be set flat and its monitor shall be set to vertically stand up.
2. Room temperature and constantly controlled humidity :
   25 ± 5℃ Relative humidity : 65 ± 20 %
3. Battery to be employed :
   Primary battery:
   Unless otherwise specified, us a Sanyo 2CR5 lithium battery
   (within four months of manufacture).
   When using various manufacturers, conduct the inspection using a Sanyo, Matsushita or Duracell 2CR5lithium battery.

   Secondary battery:
   Use the dedicated rechargeable battery EN-EL1.
   (Use after it has been fully charged with the dedicated AC adapter EH-21 or battery charger MH-53.)
4. Standard power supply :
   Specified AC power supply EH-21 shall be required.

Inspection standards

Item	Criteria	Applied tool(s)
External view		
Gap/Difference in height	• General components Gap: 0.3mm or less Difference in height: 0.15mm or less • When the battery cover is closed: Gap: 0.6mm or less (Difference between right and left must not be noticeable.) • Difference in height: 0.3mm or less (Perform measurement under free condition with battery.)	
Outside and inside status	• There must be no noticeable damage and soil. • When pushing the main body, noticeable noise must not be heard. (Observe and check it by naked eyes under fluorescent lamp and natural sunshine.)	Visual observation
Operation/Operability		
Operation	• While operating, any irregularities or irregular noise shall not be required. (Check it by shaking the camera while operating. Lightly hit the camera onto the Linoleum-laid desk while operating.)	Primary battery/ Secondary battery
Operability of buttons	• No cave-ins of the buttons shall be required. • Malfunctions shall not be required. • Operator must feel "click" on each button. • "Click" must occur when or after a switch is ON. (Check it while operating normally.)	
Lever/Knob	• When clicking, normal touch shall be required. Any outstanding "caught-in-mechanism" touch or "rubbed-in-mechanism" touch or play shall not be required. (Check and observe the condition through normal operation.)	
Operation touch	• When operating a lever or knob by hand, any irregular conditions shall not be required. (Operate the camera in the actual photography procedure and check the operation touch.)	
Each cover	• When closed, there must not be an extreme play. • Each cover can be opened/closed without any outstanding "caught-in-mechanism" touch or "rubbed-in-mechanism" touch or abnormal noise. (Open and close each cover and check it.)	

Item	Criteria	Applied tool(s)
Monitor		
Shooting image	・Inclined degree of image shall be 0.5 degree or less. ・PC monitor and print output (Output will be evaluated while the display range boundary of LCD unit is regarded as standard when the through-the-monitor image is made.)	Photoshop Printer
Lens capacity		
Focal length	Wide-end position (Compelling∞) 7.85 mm + 7% – 4% Tele-end position (Compelling∞) 71.20 mm + 1% – 7%	Focal length Measuring instrument Lens drive tool
Open aperture F No.	Wide-end position (Compelling∞) F2.8 + 7.8% – 0.4% Tele-end position (Compelling∞) F4.2 + 9.2% – 2.8%	Focal length Measuring instrument Lens drive tool
Peripheral light reduction	• There must not be an extreme light reduction.	Visual observation
Ghost/Flare	• There must not be an outstanding malfunction.	
Surface ghost	• There must not be an outstanding flare at the center.	
Distortion	• There must not be an outstanding deformation.	
Dust in a picture	• There must not be an outstanding dust in a picture.	
Lens barrel		
Zoom	• There must not be an abnormal action (for example, the unit operates one-sidedly or its operation is not smooth or it is caught). (As changing the camera's posture, check it in all the directions.)	Visual observation
AF		
Distance measurement operation	• Focus must be fit in a selected area. (Select the AF area and check it.)	Visual observation
Shortest photograph distance	The focus of AF must be fit at the following distance.	Tape measure
Normal	• 500mm (Check at each zoom position.)	
Macro	• Within 30mm from the protection glass surface (Set to the "Macro" mode.) (Check at each zoom position in the range where the "Macro" mode display (tulip) color is changed into yellow.)	

Item	Criteria	Applied tool(s)
Shooting with a speed light		
Light adjustment accuracy	• Tele-end: 0.5~2.7m • Wide-end: 0.5~4.1m In the above range, ± 1Ev or less (ISO: AUTO , • Speed light: Compelling flash, • Exposure: P mode)	Standard reflection plate
Guide No. FULL (ISO100•m)	• 11.5 (+ 0.5/-0.6) EV (Charge for 18 seconds with the new battery and perform measurement within 1 second.)	Flash meter New battery
Recycling time	• Within 8 seconds (When the full-charged battery mark is displayed)	
Lock under uncharged condition	• While the shutter release button is lightly pressed, the speed light icon blinks and “release” cannot be accepted. (While the camera is under speed light pop-up condition and uncharged condition in the flash mode, press the release button.)	Visual observation
Wrong flash	• Wrong flash must not occur. (Check by loading/unloading a battery, giving a light shock and operating mode buttons except S2.)	New primary battery
Speed light pop-up operation	• When stored or during storing action, the speed light shall not have an outstanding "caught-in-mechanism" touch, "rubbed-in-mechanism" touch, play, etc. • Latch must be accurately effective. • When luminance is low, pop-up operation must be done by lightly pressing the shutter release button. (Push the speed light in each direction and check it.)	Visual observation
Quality of image		
Resolution in AF	The resolution must be in compliance with the following values in all the postures of the EIA J chart evaluation. • Horizontal center: 1250 TV lines Vertical center: 1250 TV lines Horizontal line(s) at each corner: 850 TV lines Vertical line(s) at each corner: 850 TV lines • Set the conditions as follows: FINE, auto. white balance, center-weighted metering, P mode, sensitivity 100, gradation adjustment standard and profile emphasis standard • Wide-end position, aperture "open" • Equip the 5100K viewer with the chart and shoot an object in the full range of angle of view. Then, open the recorded image data file through PHOTO-SHOP and check the resolution visually.	EIAJ chart PHOTOSHOP

<table>
<tr><th>Item</th><th>Criteria</th><th>Applied tool(s)</th></tr>
<tr><td>Quality of image
Reproduction of color</td><td>
<table>
<tr><th>B</th><th>R</th><th>G</th><th>B</th></tr>
<tr><td>W</td><td>190-230</td><td>190-230</td><td>190-230</td></tr>
<tr><td>Ye</td><td>190-230</td><td>180-210</td><td>40- 70</td></tr>
<tr><td>R</td><td>200-220</td><td>0- 20</td><td>0- 5</td></tr>
</table>
• Set the conditions as follows: FINE, auto. white balance, center-weighted metering, P mode, sensitivity 100, gradation adjustment standard and profile emphasis standard
• Equip the 5100K viewer with the chart and shoot an object in the full range of angle of view.
Open the recorded image data file through PHOTOSHOP and pick up a measurement section with the corner color (its central area 64 × 64 pixels) with the rectangle selector tool.
• Read the histogram's RGB.</td><td>Color bar chart</td></tr>
<tr><td>Finder•EVF
View Image</td><td>• There must be no blur, distortion, ghost, halation or other outstanding troubles in contrast, gradation, etc.</td><td>Visual observation</td></tr>
<tr><td>Defective pixels</td><td>• Total 3 pixels or less: 1 pixel or less at the center and 3 pixels or less in the periphery</td><td>Visual observation</td></tr>
<tr><td>View Field of view</td><td>• 75% or more and less than 100% in each of vertical and horizontal directions
(Trace the range which can be checked with the finder on the picture which was taken at the 3m position.)</td><td>Scale</td></tr>
<tr><td>Dust, fluff and damage
• Eyepiece acrylic filter</td><td>
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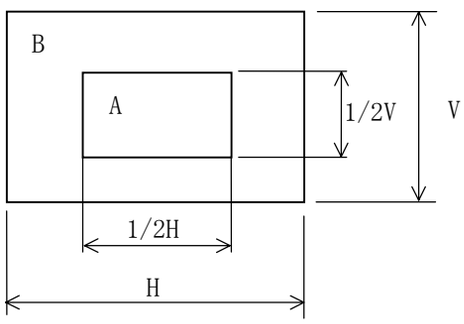
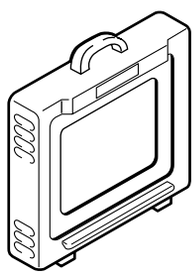
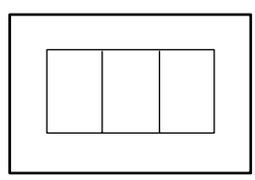
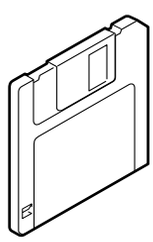
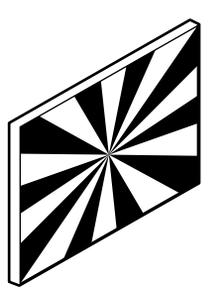
<tr><th>Size of dust</th><th>Quantity</th></tr>
<tr><td>100µm or more</td><td>0</td></tr>
<tr><td>50µm or more and less than 100µm</td><td>3 or less</td></tr>
<tr><td>Less than 50µm</td><td>Not collected in one point nor outstanding</td></tr>
</table>
</td><td>Visual observation</td></tr>
<tr><td>• EVF unit</td><td>
<table>
<tr><th>Size of dust</th><th>Quantity</th></tr>
<tr><td>50µm or more</td><td>0</td></tr>
<tr><td>30µm or more and 50µm or less</td><td>2 or less</td></tr>
<tr><td>Less than 30µm</td><td>Not collected in one point nor outstanding</td></tr>
</table>
</td><td>Visual observation</td></tr>
</table>

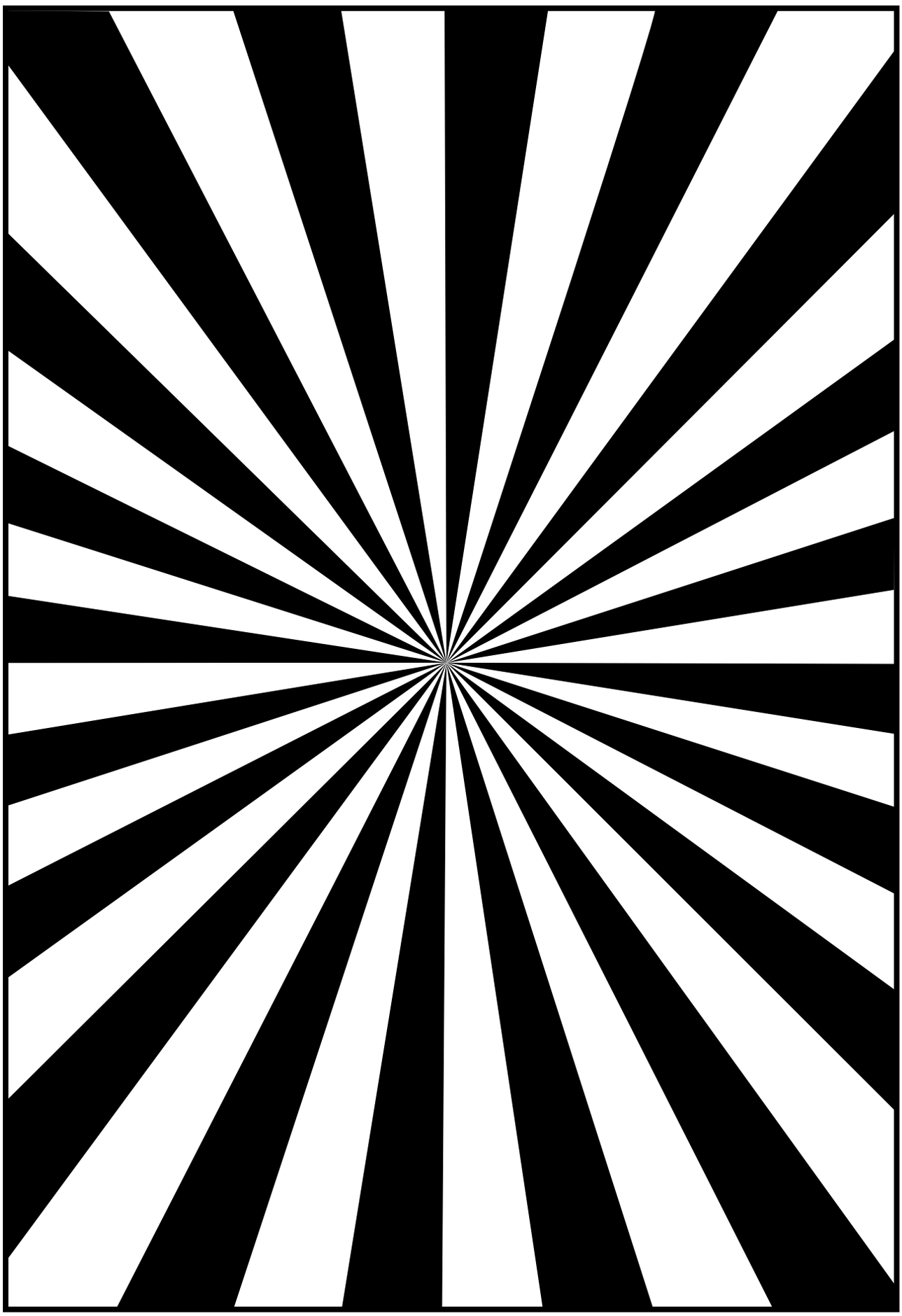
<table>
<tr><th>Item</th><th>Criteria</th><th>Applied tool(s)</th></tr>
<tr><td>LCD and others</td><td></td><td></td></tr>
<tr><td>Monitor LCD View</td><td>• There must be no shading in the LCD display range.
• Inclination between the monitor and the monitor frame must not be outstanding.</td><td>Visual observation</td></tr>
<tr><td>Visual field ratio</td><td>• Through-the-monitor image: 96 to 100%
• Play-back image: 98 to 100%</td><td>Visual observation</td></tr>
<tr><td>Bright pixels or dim pixels on LCD</td><td> 

<table>
<tr><th>Zone</th><th>Bright pixel</th><th>Dim pixel</th></tr>
<tr><td>A</td><td>1</td><td>6</td></tr>
<tr><td>B</td><td>1</td><td>6</td></tr>
<tr><td>Total</td><td>3</td><td>6</td></tr>
</table>
Bright pixels: Visible normally through 5% ND filter
Dim pixels: Visible normally (Standard: Within the above quantity)</td><td>Visual observation</td></tr>
<tr><td>Self-timer
Operation time:
10 seconds
3 seconds
LED blinks/lights</td><td>
• 10 ± 3 seconds
• 3 ± 1 seconds
• Blinks for 9 seconds and lights for 1 second.
• Blinks for 2 seconds and lights for 1 second.
(Measure the time until release is done since S2 was ON.)</td><td>Visual observation
Stop watch</td></tr>
<tr><td>Electric characteristics</td><td></td><td></td></tr>
<tr><td>Consumption current
Stand-by</td><td>• 0.2mA or less (when the power switch is OFF)
• 0.30mA or less (at "Sleep")
(Connect 6V from the constant-voltage power supply and perform measurement.)</td><td>Constant voltage power supply
Ammeter</td></tr>
<tr><td>Start (Photography)</td><td>• 1A or less (when the custom "0" start monitor is ON)</td><td></td></tr>
<tr><td>B. C voltage</td><td></td><td></td></tr>
<tr><td>Level 1</td><td>• 4.9 ± 0.2V (for battery), 7.4 ± 0.2V (for secondary battery)
6.5 ± 0.2V (external battery)</td><td>Constant voltage power supply
Volt meter</td></tr>
<tr><td>Level 2</td><td>• 4.0 ± 0.25V (for battery), 6.7 ± 0.25V (for secondary battery)
5.9 ± 0.2V (external battery)</td><td></td></tr>
<tr><td>Level 3</td><td>• 3.8 ± 0.2V (for battery), 6.3± 0.2V (for secondary battery)
5.7 ± 0.2V (external battery)</td><td></td></tr>
</table>

［２］工具一覧表　　Tool List

※：新規工具
※：New tool

工具番号 Tool No.	名　　称 Name	備　考 Remarks
J63070 (100-240Volts)	カラービューアー　5100K Colour Viwer 5100K 	共通 Common
J63056	色調整用チャート Chart for Colour Adjustment 	共通 Common
J65042	キャリブレーションソフト Calibration Software 	E995,E775,E885,E5000 E2500,E4500,E5700
サービスマニュアル添付 Attached in Service Manual	ジーメンスチャート Siemens chart 	共通 Common



VAA11801-R.3578.A

作成承認印	配布許可印
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Nikon

COOLPIX5700

VAA11801 (J)
VAA11802 (U)
VAA11803 (EP)
VAA11804 (EN)

PARTS LIST

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Tokyo, Japan

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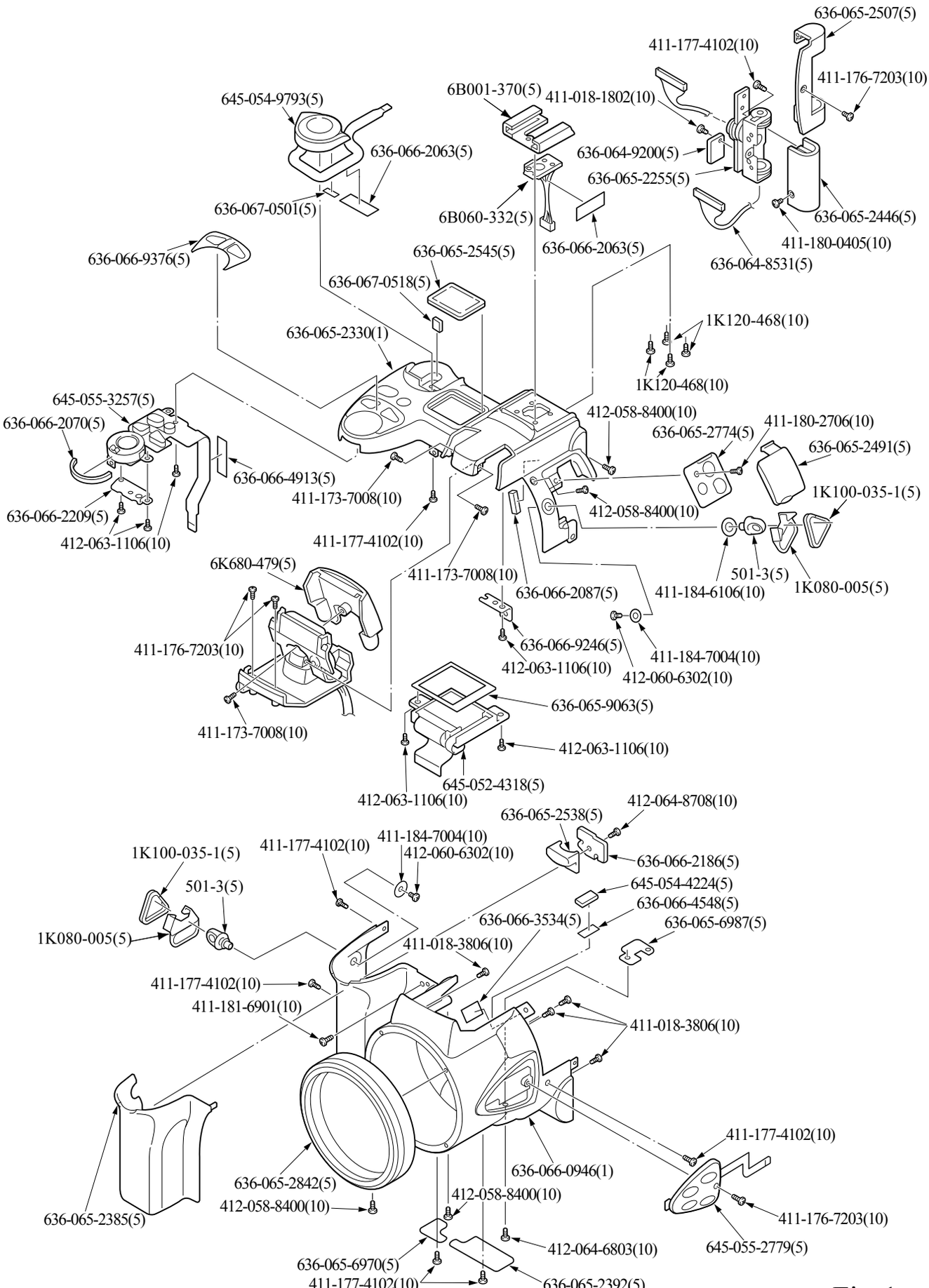
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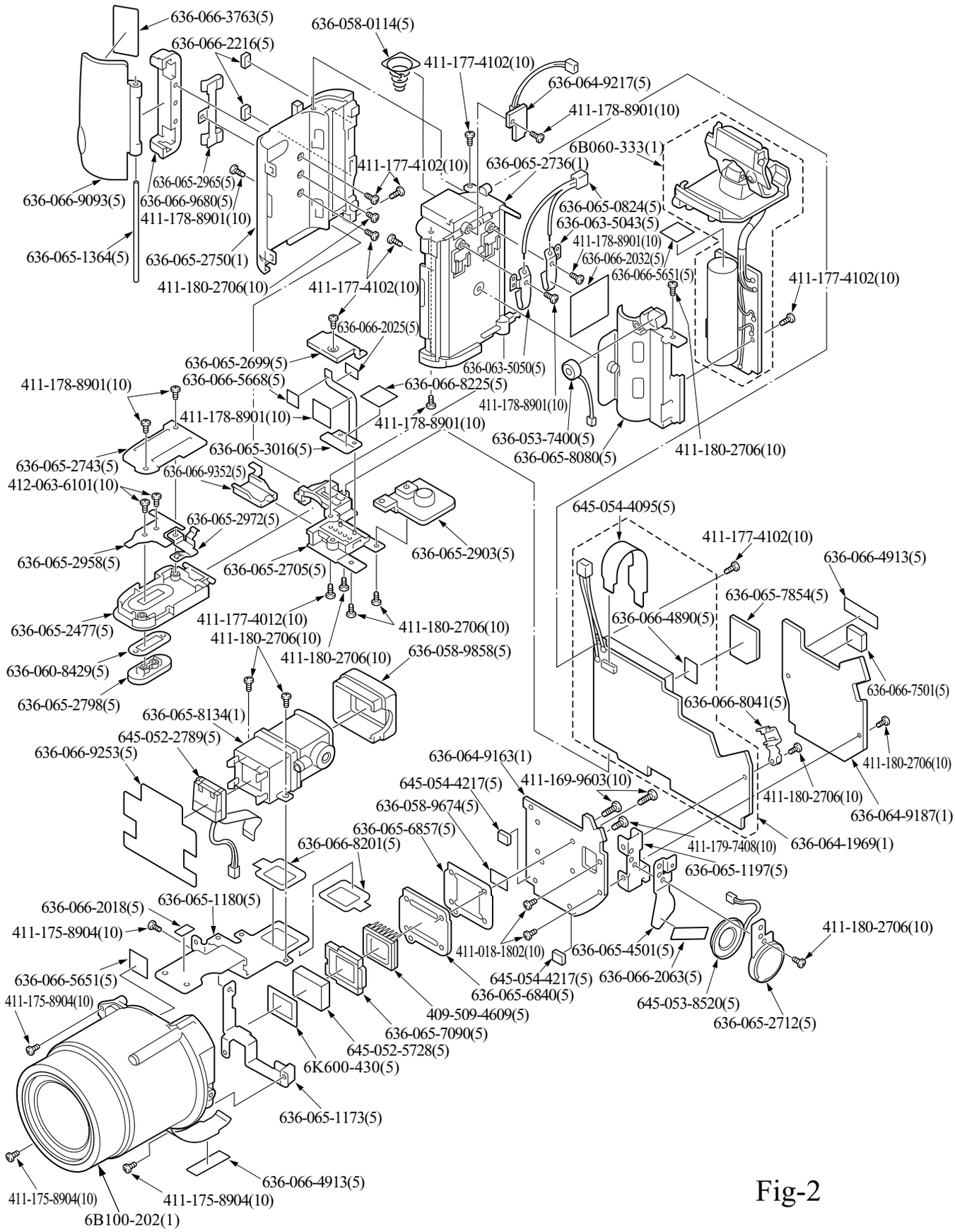
Fig-1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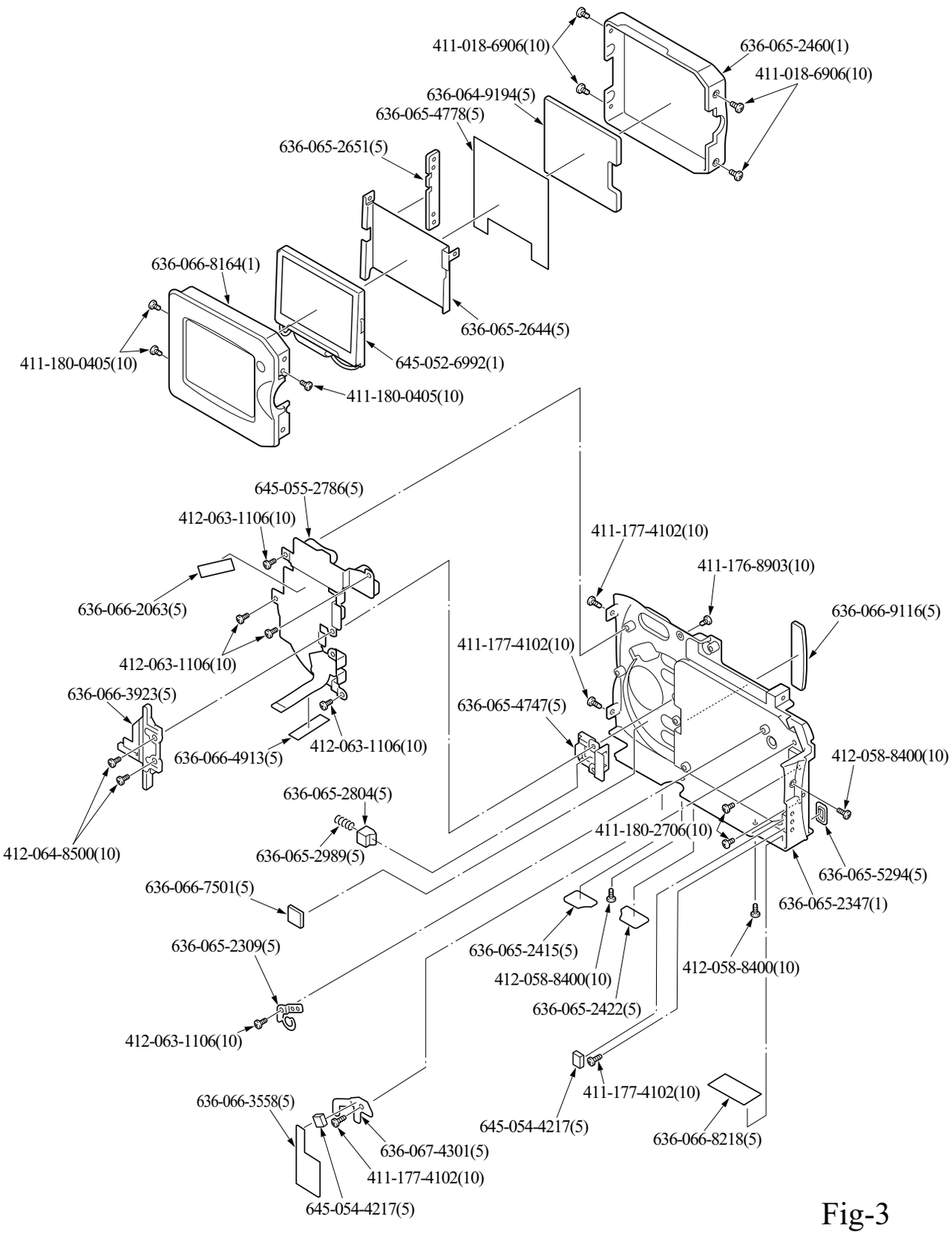
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Fig-3

Parts List

E5700

VAA11801-R.3578.A

Part Number	Part Code	名　　称	Part Name	Pcs, /Unit	fig No.	Main Assembly	Term of Deliver	Q'ty/ Order	Remarks
＊409-509-4609	(409-509-4609)	ＣＣＤセンサー	IMAGE SENSOR	1	2		○	5	
411-018-1802	(411-018-1802)	ＳＣＲＥＷ	SCREW	5	1, 2		○	10	
411-018-3806	(411-018-3806)	ＳＣＲＥＷ	SCREW	4	1		○	10	
＊411-018-6906	(411-018-6906)	ＳＣＲＥＷ	SCREW	4	3		○	10	
＊411-169-9603	(411-169-9603)	ＳＣＲＥＷ	SCREW	2	2		○	10	
＊411-173-7008	(411-173-7008)	ＳＣＲＥＷ	SCREW	3	1		○	10	
＊411-175-8904	(411-175-8904)	ＳＣＲＥＷ	SCREW	4	2		○	10	
411-176-7203	(411-176-7203)	ＳＣＲＥＷ	SCREW	4	1		○	10	
＊411-176-8903	(411-176-8903)	ＳＣＲＥＷ	SCREW	2	1, 3		○	10	
＊411-177-4102	(411-177-4102)	ＳＣＲＥＷ	SCREW	19	1, 2, 3		○	10	
＊411-178-8901	(411-178-8901)	ＳＣＲＥＷ	SCREW	4	2		○	10	
＊411-179-7408	(411-179-7408)	ＳＣＲＥＷ	SCREW	1	2		○	10	
＊411-180-0405	(411-180-0405)	ＳＣＲＥＷ	SCREW	4	3		○	10	
411-180-2706	(411-180-2706)	ＳＣＲＥＷ	SCREW	11	1, 2, 3		○	10	
411-181-6901	(411-181-6901)	ＳＣＲＥＷ	SCREW	1	1		○	10	
411-184-6106	(411-184-6106)	ワッシャー	WASHER	1	1		○	10	
411-184-7004	(411-184-7004)	ワッシャー	WASHER	1	1		○	10	

Parts List

E5700

VAA11801-R.3578.A

Part Number	Part Code	名　　称	Part Name	Pcs, /Unit	fig No.	Main Assembly	Term of Deliver	Q'ty/ Order	Remarks
＊412-058-8400	(412-058-8400)	ＳＣＲＥＷ	SCREW	6	1,3		○	10	
412-060-6302	(412-060-6302)	ＳＣＲＥＷ	SCREW	2	1		○	10	
＊412-063-1106	(412-063-1106)	ＳＣＲＥＷ	SCREW	11	1,3		○	10	
412-063-6101	(412-063-6101)	ＳＣＲＥＷ	SCREW	2	2		○	10	
412-064-6803	(412-064-6803)	ＳＣＲＥＷ	SCREW	1	1		○	10	
412-064-8500	(412-064-8500)	ＳＣＲＥＷ	SCREW	2	3		○	10	
412-064-8609	(412-064-8609)	ＳＣＲＥＷ	SCREW	1	2		○	10	
412-064-8708	(412-064-8708)	ＳＣＲＥＷ	SCREW	1	1		○	10	
＊636-058-0114	(636-058-0114)	バッテリースプリングＣ	BATTERY SPRING C	1	2		○	5	
＊636-058-9674	(636-058-9674)	シールドテープ	SHIELD TAPE	1	2		○	5	
636-058-9858	(636-058-9858)	フードＶＦ	HOOD VF	1	2		○	5	
＊636-060-8429	(636-060-8429)	スペーサー	SPACER	1	2		○	5	
＊636-063-5043	(636-063-5043)	バッテリーターミナル　Ａ	BATTERY TERMINAL A	1	2		○	5	
＊636-063-5050	(636-063-5050)	バッテリーターミナル　Ｂ	BATTERY TERMINAL B	1	2		○	5	
636-064-1969	(636-064-1969)	メイン基板部組　ＣＰ－１	MAIN PCB CP-1	1	2		○	1	
636-064-8531	(636-064-8531)	ワイヤ部組　ＶＦ－１	WIRE UNIT VF-1	1	1		○	5	
636-064-9163	(636-064-9163)	ＣＣＤ基板　ＣＡ－１	IMAGE SENSOR PCB CA-1	1	2		○	1	

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Part Number	Part Code	名　　称	Part Name	Pcs, /Unit	fig No.	Main Assembly	Term of Deliver	Q'ty/ Order	Remarks
636-064-9187	(636-064-9187)	電源回路基板　ＰＷ-1	POWER GENERATION PCB PW-1	1	2		○	1	
636-064-9194	(636-064-9194)	ＬＣＤ表示基板　ＶＦ－１	LCD PCB VF-1	1	3		○	1	
636-064-9200	(636-064-9200)	反転ＳＷ基板　ＴＢ－１	REVERSE SW PCB TB-1	1	1		○	5	
636-064-9217	(636-064-9217)	バッテリーＳＷ　ＴＢ－２	BATTERY SW PCB TB-2	1	2		○	5	
636-065-0824	(636-065-0824)	ワイヤ部組	WIRE UNIT	1	2		○	5	
636-065-1173	(636-065-1173)	ホルダーレンズ	HOLDER LENS	1	2		○	5	
636-065-1180	(636-065-1180)	ホルダーＥＶＦ	EVF HOLDER	1	2		○	5	
636-065-1197	(636-065-1197)	ホルダーＣＡ１	CA-1 HOLDER	1	2		○	5	
＊636-065-1364	(636-065-1364)	ＣＦカードシャフト	CF CARD SHAFT	1	2		○	5	
636-065-2255	(636-065-2255)	ジョイント部組	JOINT UNIT	1	1		○	5	
636-065-2309	(636-065-2309)	ボタンモニター	MONITOR BUTTON	1	3		○	5	
636-065-2330	(636-065-2330)	トップキャビネット	TOP CABINET	1	1		○	1	
636-065-2347	(636-065-2347)	バックキャビネット	BACK CABINET	1	3		○	1	
636-065-2385	(636-065-2385)	グリップカバー	GRIP COVER	1	1		○	5	
636-065-2392	(636-065-2392)	スタンドカバー	STAND COVER	1	1		○	5	
636-065-2415	(636-065-2415)	スタンドカバーＣ	STAND COVER C	1	3		○	5	
636-065-2422	(636-065-2422)	スタンドカバーＢ	STAND COVER B	1	3		○	5	

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636-065-2446	(636-065-2446)	モニターカバー	MONITOR COVER	1	1		○	5	
636-065-2460	(636-065-2460)	ＬＣＤバックカバー	BACK COVER LCD	1	3		○	1	
636-065-2477	(636-065-2477)	バッテリーカバー	BATTERY COVER	1	2		○	5	
636-065-2491	(636-065-2491)	ジャックカバー	JACK COVER	1	1		○	5	
636-065-2507	(636-065-2507)	ジョイントカバー	JOINT COVER	1	1		○	5	
636-065-2538	(636-065-2538)	ＬＥＤデック	LED DECK	1	1		○	5	
636-065-2545	(636-065-2545)	ＬＣＤモード飾り	LCD MODE COVER	1	1		○	5	
636-065-2644	(636-065-2644)	ＬＣＤホルダー	LCD HOLDER	1	3		○	5	
636-065-2651	(636-065-2651)	ＬＣＤサイドホルダー	LCD SIDE HOLDER	1	3		○	5	
636-065-2699	(636-065-2699)	ハーネスホルダー	HARNESS HOLDER	1	2		○	5	
636-065-2705	(636-065-2705)	底ホルダー	BOTTOM HOLDER	1	2		○	5	
636-065-2712	(636-065-2712)	スピーカーホルダーＡ	SPEAKER HOLDER	1	2		○	5	
636-065-2736	(636-065-2736)	バッテリーホルダー	BATTERY HOLDER	1	2		○	5	
636-065-2743	(636-065-2743)	バッテリーホルダーカバー	BATTERY HOLDER COVER	1	2		○	5	
636-065-2750	(636-065-2750)	Ｃ／Ｆカードホルダー	C/F CARD HOLDER	1	2		○	5	
636-065-2774	(636-065-2774)	ジャックホルダー	JACK HOLDER	1	1		○	5	
636-065-2798	(636-065-2798)	バッテリーノブカバー	BATTERY KNOB COVER	1	2		○	5	

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636-065-2804	(636-065-2804)	ＬＣＤロックレバー	LCD LOCK LEVER	1	3		○	5	
636-065-2842	(636-065-2842)	リング	RING	1	1		○	5	
636-065-2903	(636-065-2903)	スタンド	STAND	1	2		○	5	
636-065-2958	(636-065-2958)	バッテリースライド	BATTERY SLIDE	1	2		○	5	
636-065-2965	(636-065-2965)	バネ板	SPRING PLATE	1	2		○	5	
636-065-2972	(636-065-2972)	バッテリーノブカバースプリング	BATTERY KNOB COVER SPRING	1	2		○	5	
636-065-2989	(636-065-2989)	ＬＣＤロックスプリング	LCD LOCK SPRING	1	3		○	5	
636-065-3016	(636-065-3016)	フレキシブルＰＷＢ	FLEXIBLE PWB	1	2		○	5	
636-065-4501	(636-065-4501)	スピーカーホルダーＢ	SPEAKER HOLDER B	1	2		○	5	
636-065-4747	(636-065-4747)	ＬＣＤロックホルダー	LCD LOCK HOLDER	1	3		○	5	
636-065-4778	(636-065-4778)	スペーサー	SPACER	1	3		○	5	
636-065-5294	(636-065-5294)	ＬＣＤカバーハーネス	LCD COVER HARNESS	1	3		○	5	
636-065-6840	(636-065-6840)	マウンティングレンズ	MOUNTING LENS	1	2		○	5	
636-065-6857	(636-065-6857)	スペーサー	SPACER	1	2		○	5	
636-065-6970	(636-065-6970)	カバースタンドＤ	COVER STAND D	1	1		○	5	
636-065-6987	(636-065-6987)	バックレンズホルダー	BACK LENS HOLDER	1	1		○	5	
636-065-7090	(636-065-7090)	スペーサー	SPACER	1	2		○	5	

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636-065-7854	(636-065-7854)	中継基板　ＴＢ－３	RELAY PCB TB-3	1	2		○	5	
636-065-8080	(636-065-8080)	コンデンサーホルダー	CONDENSER HOLDER	1	2		○	5	
636-065-8134	(636-065-8134)	ＥＶＦホルダー	EVF HOLDER	1	2		○	1	
636-065-9063	(636-065-9063)	スペーサー	SPACER	1	1		○	5	
636-066-0946	(636-066-0946)	鏡筒カバー	LENS UNIT COVER	1	1		○	1	
636-066-2018	(636-066-2018)	テープ	TAPE	1	2		○	5	
636-066-2025	(636-066-2025)	スペーサー	SPACER	1	2		○	5	
636-066-2032	(636-066-2032)	スペーサー	SPACER	1	2		○	5	
636-066-2063	(636-066-2063)	スペーサー	SPACER	2	2,3		○	5	
636-066-2070	(636-066-2070)	スペーサー	SPACER	1	1		○	5	
636-066-2087	(636-066-2087)	スペーサー	SPACER	1	1		○	5	
636-066-2186	(636-066-2186)	セルフＬＥＤ基板　ＴＢ－４	SELF TIMER LED PCB TB-4	1	1		○	5	
636-066-2209	(636-066-2209)	トップパッドホルダー	TOP PAD HOLDER	1	1		○	5	
636-066-2216	(636-066-2216)	スペーサー	SPACER	1	2		○	5	
636-066-3534	(636-066-3534)	スペーサー	SPACER	1	1		○	5	
636-066-3558	(636-066-3558)	スペーサー	SPACER	1	3		○	5	
636-067-4301	(636-067-4301)	モニターボタンスプリング	MONITOR BUTTON SPRING	1	3		○	5	

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636-066-3763	(636-066-3763)	ＣＦカバーラベル	CF COVER LABEL	1	2		○	5	
636-066-3923	(636-066-3923)	バックユニットホルダー	BACK UNIT HOLDER	1	3		○	5	
636-066-4548	(636-066-4548)	シールドテープ	SHIELD TAPE	1	1		○	5	
636-066-4890	(636-066-4890)	テープ	TAPE	1	2		○	5	
636-066-4913	(636-066-4913)	スペーサー	SPACER	2	2,3		○	5	
636-066-5651	(636-066-5651)	スペーサー	SPACER	1	2		○	5	
636-066-5668	(636-066-5668)	スペーサー	SPACER	1	2		○	5	
636-066-7501	(636-066-7501)	スペーサー	SPACER	2	2,3		○	5	
636-066-8041	(636-066-8041)	ＵＳＢホルダー	USB HOLDER	1	2		○	5	
636-066-8164	(636-066-8164)	フロントカバー	FRONT COVER	1	3		○	1	
636-066-8201	(636-066-8201)	スペサー	SPACER	1	2		○	5	
636-066-8218	(636-066-8218)	スペサー	SPACER	1	3		○	5	
636-066-8225	(636-066-8225)	スペサー	SPACER	1	2		○	5	
636-066-9093	(636-066-9093)	Ｃ／Ｆカードカバー	CF CARD COVER	1	2		○	5	
636-066-9116	(636-066-9116)	ロックカバー	LOCK COVER	1	3		○	5	
636-066-9246	(636-066-9246)	トップバックホルダー	TOP BACK HOLDER	1	1		○	5	
636-066-9253	(636-066-9253)	スペーサー	SPACER	1	2		○	5	

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636-066-9352	(636-066-9352)	ターミナルカバー	TERMINAL COVER	1	2		○	5	
636-066-9376	(636-066-9376)	ＳＬＤユニットカバー	SLD UNIT COVER	1	1		○	5	
636-066-9680	(636-066-9680)	ＣＦカバーホルダー	CF COVER HOLDER	1	2		○	5	
636-067-0501	(636-067-0501)	スペーサー	SPACER	1	1		○	5	
636-067-0518	(636-067-0518)	スペーサー	SPACER	1	1		○	5	
645-052-2789	(645-052-2789)	ＬＣＤ	LCD	1	2		○	5	
645-052-4318	(645-052-4318)	ＬＣＤ	LCD	1	1		○	5	
645-052-5728	(645-052-5728)	オプティカルフィルター	OPTICAL FILTER	1	2		○	5	
＊645-052-6992	(645-052-6992)	ＬＣＤ	LCD	1	3		○	1	
645-053-7400	(645-053-7400)	マイクロフォン	MICROPHONE	1	2		○	5	
645-053-8520	(645-053-8520)	スピーカー	SPEAKER	1	2		○	5	
645-054-4095	(645-054-4095)	ＦＰＣ	FPC	3	2	636-064-1969	○△	5	
645-054-4217	(645-054-4217)	パッド(L=4)	PAD (L=4)	3	2, 3		○	5	
645-054-4224	(645-054-4224)	パッド（Ｌ＝７）	PAD (L=7)	1	1		○	5	
645-054-9793	(645-054-9793)	ダイヤルユニット	DIAL UNIT	1	1		○	5	
645-055-2779	(645-055-2779)	サイドコントールユニット	SIDE CONTROL UNIT	1	1		○	5	
645-055-2786	(645-055-2786)	バックコントロールユニット	BACK CONTROL UNIT	1	3		○	5	

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645-055-3257	(645-055-3257)	ＳＬＤスイッチユニット	SLD SWITCH UNIT	1	1		○	5	
＊1K080-005	(1K080-005)	三角環カバー	NECK-STRAP RING COVER	2	1		○	5	
＊1K100-035-1	(1K100-035)	三角環	NECK-STRAP RING	2	1		○	5	
1K120-468	(1K120-468)	ホットシュー取付けビス	HOT SHOE SCREW	4	1		○	10	
6B001-370	(6B001-370)	ホットシュー部組	HOT SHOE UNIT	1	1		○	5	
6B060-332	(6B060-332)	ホットシュー端子モールド	HOT SHOE TERMINAL MOLD	1	1		○	5	
6B060-333	(6B060-333)	ストロボユニット	SB UNIT	1	2		○	1	
6B100-202	(6B100-202)	鏡筒ユニット	LENS UNIT	1	2		○	1	
6K600-430	(6K600-430)	ＬＰＦ絞り	LPF SPACER	1	2		○	5	
6K680-479	(6K680-479)	ＳＢ上カバー	SB TOP COVER	1	1		○	5	
501-3	(501-3)	吊り環	EYELET	2	1		○	5	